



October 5, 2023

Attn: New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: **Release Investigation, and Closure Report**
Mobley Water Recycling Facility
Unit C, Section 19, Township 23 South, Range 30 East
32.2958135°, -103.9252036°
Eddy County, New Mexico
Terracon Project No. KH227027
NMOCD Incident No. nAPP2234144689

To Whom It May Concern:

Terracon Consultants, Inc. (Terracon) is pleased to submit our Release Investigation and Closure Report for the site referenced above. The scope of services was developed and executed in accordance with the New Mexico Oil Conservation Division (NMOCD) regulations governing environmental response actions required for releases of crude oil and produced water. The response actions were taken in response to a produced water release from an overfilled treatment tank on December 6, 2022, at the Mobley Water Recycling Facility. The below sections detail Terracon’s assessment and remediation actions in response to the noted release.

Action Items

Completed Actions

- 1) The release assessment activities were executed between January and April 2023.
- 2) Release assessment maps and laboratory data summary tables are attached within Appendices A, B, and D. A photographic log is included in Appendix C.
- 3) Vertical and horizontal delineation boundaries were achieved through the demonstration of constituents of concern at concentrations below applicable NMOCD Reclamation and Remediation Standards. Excavation confirmation sampling was executed to be representative of a 200-square-foot (sf) assessment area. Confirmation sampling concluded in August 2023.
- 4) Remediation efforts were executed between February and July 2023 and consisted of the excavation of materials identified to exhibit concentrations above NMOCD Reclamation and Remediation Standards (approximately 2,500 cubic yards (cy)). The exhumed materials were disposed of at Lea Land Landfill, a permitted disposal facility.
- 5) Upon completion of the removal and disposal of the impacted material, the excavation was backfilled with native material to the surrounding grade and reseeded.

Solaris Water Midstream, LLC
Mobley Water Recycling Facility
32.2958135°, -103.9252036°
NMOCD Reference # nAPP2234144689
Terracon Project # KH227027




Anticipated Actions


- 1) Approval by the NMOCD.
-

Terracon appreciates this opportunity to provide environmental services to Solaris Water Midstream, LLC. Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,
Terracon Consultants, Inc.



Travis Casey
Senior Staff Scientist
Carlsbad



Erin Loyd, P.G. (TX)
Senior Principal
Office Manager – Lubbock

CC:
Rob Kirk, Vice President of Environmental Compliance
Solaris Water Midstream, LLC
907 Tradewinds Blvd, Suite B
Midland, Texas 79706

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- Exhibit 7 – Designated Wetland Area Map
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- Table 3 – Confirmation Evaluation (Floor Samples)
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Appendix C – Photographic Log

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Appendix E – Initial Form C-141 and Final Form C-141

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Section 1 – Incident Information

The following table provides detailed information regarding the December 06, 2022, produced water release at the Mobley Water Recycling Facility (Mobley) site in Eddy County, New Mexico:

Required Information	Site and Release information	
Responsible party	The facility is operated by Solaris Water Midstream, LLC.	
Local contact	Contact: Mr. Rob Kirk	P: (575)-300-5155 E: rob.kirk@ariswater.com
NMOCD Notification	Notice of the release was provided to the NMOCD District 2 Artesia Office by Mr. Rob Kirk on December 06, 2022. NMOCD Reference ID: nAPP2234144689	
Facility Description	Mobley Water Recycling Facility is in Eddy County, New Mexico. The site is located within Unit C, Section 19, Township 23 South, Range 30 East, approximately 9.85 miles northeast of Loving, New Mexico. The site is predominantly developed as an oil and gas production well pad surrounded by native pastureland and owned by a private landowner.	
Time of incident	December 06, 2022, discovered during routine maintenance.	
Discharge event	A transfer pump ran out of fuel, resulting in an overflow of the treatment tank. The Site is illustrated in Exhibits 1 and 2 of Appendix A	
Type of discharge	The documented produced water release occurred in an oil and gas production well pad, a privately owned, native pastureland area. Soils at the site are affected at the surface and 4 ft. below.	
Quantity of spilled material	Total Fluids: 70 bbls	Produced Water: 70 bbls
Site characteristics	Relatively flat with drainage following the natural ground surface.	
Immediate corrective actions	The treatment tank was contained, and excess free fluids were removed by HydroVac from the secondary containment.	

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Section 2 – General Site Characteristics

Physical Characteristic	Site Ranking Characteristics
<p>Groundwater NMOSE POD Location Map (Exhibit 5 in Appendix A)</p>	<p><u>POD Number:</u> (C-04472 POD 1) <u>Depth to Groundwater:</u> 37 ft. bgs <u>Distance to Well:</u> 0.63 miles to the northeast <u>Date Drilled:</u> August 19, 2023</p> <hr/> <p><u>Groundwater Quality:</u> Groundwater quality at the site is predominately used for environmental monitoring.</p>
<p>Surface Water NM Wetland Map – (Exhibit 6 in Appendix A)</p>	<p>Salt Lake (unnamed), approximately 2.15 miles to the northwest.</p>
<p>100-Year Flood Plain</p>	<p>This site is located outside the 100-year flood plain of the Pecos River.</p>
<p>Soil Characteristics</p>	<p>Soils at the site are mapped as Reeves-Gypsum Land Complex series soils, 0 to 3 percent slopes, well-drained; 0 to 8 inches loam; noncalcareous. (6 to 12 inches thick). The formation is categorized with a very high runoff classification.</p>
<p>Karst Characterization Cave Karst Public UCP Map (Exhibit 7 in Appendix A)</p>	<p>Terracon evaluated data from the NMOCD Public FTP Site, Karst map designations in reference to the site location. The site appears to be within a high-level Karst risk area. Based on on-site observations within the extent of the release margins, the potential for Karst formations in this specific area is low potential, as illustrated in Exhibit 7. Restrictive features were not encountered from surface to 60 inches below grade surface (bgs) within the release margins. The full extent of release quantities and excavation activities did not extend greater than 60 inches bgs.</p>

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Section 3 – Regulatory Framework and Response Action Levels

Oil and gas exploration and production facilities in New Mexico are generally regulated by the New Mexico Oil Conservation Division (NMOCD). The NMOCD has issued the *Closure Criteria for Soils Impacted by a Release, June 21, 2018*, and *Restoration, Reclamation, and Re-vegetation (19.15.29.13) NMAC – D (Reclamation of areas no longer in use)* as guidance documents for the remediation and reclamation of sites impacted by releases from oil and gas exploration and production activities. Sections detailed below the applicability of these guidance documents to the site-specific characteristics associated with the Mobley Water Recycling Facility.

Section 3.1 – Reclamation Levels (Surface to 4 ft. bgs)

The below Reclamation Limits for chloride, total petroleum hydrocarbons (TPH-GRO+DRO+MRO), BTEX (includes benzene, toluene, ethylbenzene, and xylenes), and benzene are defined within New Mexico Administration Code (NMAC) *Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use)* for soils extending to 4 ft. bgs.:

Constituent	Remediation Limits
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Section 3.2 – Remediation Levels

Based on the elevated Karst designation, the applicable NMOCD remediation levels for chloride, TPH, BTEX, and benzene within soils, exclusive of the Reclamation Zone (surface to 4 ft. bgs), are as follows:

Constituent	Remediation Limit
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

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Section 4 – Investigation Activities

On December 16, 2022, Rob Kirk with Solaris assigned the incident to Terracon for an initial investigation. Following the contract approvals and coordinating field activities Terracon collected initial release samples on January 4, 2023.

On January 30, 2023, Terracon provided a proposal for remediation at the site to Solaris for their approval, additionally, Solaris was informed of standing water just south of the release and the project was put on hold to determine the source of the water. The water was determined to be an intermittent spring as explained by the landowner.

Following the approval of the proposal, Terracon began remediation activities at the site in February 2023.

Section 5 – Investigation Assessment

A total of 23 samples were collected from the inferred release area, with a total of 10 representative background samples (E-BH-1 – W-BH-4), 7 samples representing the horizontal delineation (HS-1 – HS-7) of the release, and a total of six samples were collected within the inferred release area (HA-1 – HA4) to determine the vertical delineation of the release.

Laboratory analytical results are illustrated in Appendix A, Exhibits 3 and 4, and in Appendix B, Tables 1 and 2.

Collected samples were placed in laboratory-provided sample containers, preserved with ice, and transported under chain of custody to Eurofins Laboratory in Carlsbad, New Mexico for analysis of chloride, TPH, BTEX, and benzene.

Section 6 – Remediation Activities

From February 17 to July 25, 2023, Terracon conducted remediation activities at the site through the removal of soils characterized by analytical data as being above applicable NMOCD Reclamation and Remediation standards to depths ranging from approximately 2 to 4 feet bgs.

The project experienced delays due to the proximity of the release to sub-surface high-pressure lines to the south and west of the inferred release area as seen in Exhibit 2 of Appendix A. The project was completed in two steps, first, the release outside of the fenced-

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in facility was addressed from February 2023 to April 2023, and the remaining area within the fenced-in facility was completed in July 2023.

The delay in completing the final portion of the remediation was due to the need to shut down operations within the fence to facilitate the remediation.

Approximately 2,500 cubic yards of soil were excavated and stockpiled atop a polyethylene liner pending waste characterization and disposal under an approved Form C-138. Excavation efforts were ceased based on the results of the composite soil sample laboratory analysis. Results are detailed in Sections 5 and 6. Excavated materials were disposed of at the Lea Land Landfill Facility.

Section 7 - Remediation Confirmation Assessment

A total of 28-floor confirmation composite soil samples (FS-01 through FS-15.1) and 30 wall confirmation composite soil samples (N-SW-01 through W-SW-06.2) are representative of the excavation boundaries located outside and inside of the fenced facility.

Collected samples were placed in laboratory-provided sample containers, preserved with ice, and transported under chain of custody to Eurofins Laboratory in Carlsbad, New Mexico for analysis of chloride, TPH, BTEX, and benzene.

Section 8 – Analytical Results

Composite soil samples collected from February 17, 2023, through August 21, 2023, did not exhibit concentrations of BTEX or TPH (EPA Method 8015M) above laboratory SDLs. The sole exception being N-SW-2 (surface to 5 ft bgs) that had a total TPH concentration of 209 mg/kg, but following subsequent remedial efforts exhibited no concentrations above SDLs.

The soil samples collected from the excavation areas exhibited concentrations of chloride above laboratory sample detection limits and ranged from 55.3 mg/kg in FS-02(4-4.5 feet) to 9,630 mg/kg in FS-06 (5 feet). Chloride concentrations generally decrease with sample depth as exhibited in samples FS-04 (4 feet) and FS-04 (4.5 feet). Sample FS-04 at 4 feet contained a chloride concentration of 324 mg/kg, and at 4.5 feet contained a chloride concentration of 178 mg/kg.

On March 30, 2023, Terracon collected background soil samples from around the Mobley Site. The Boreholes established a background chloride concentration in the soil in the area at a depth of 4 to 5 feet. Results of these sampling events indicate that background chloride

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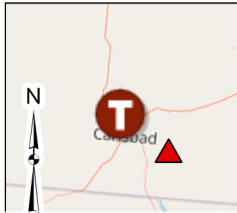
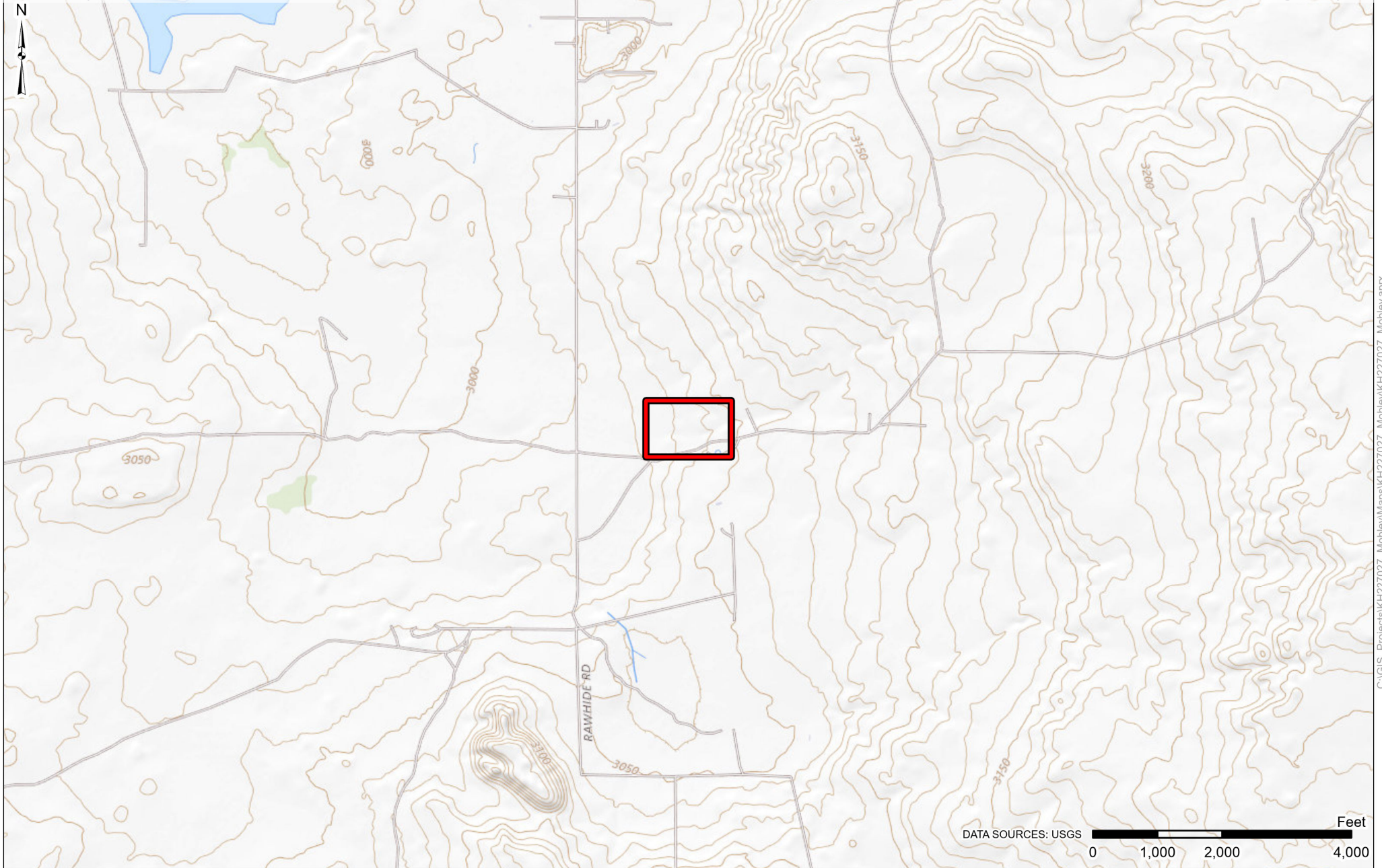
concentrations in soils are found to exist at levels ranging from 42.3 mg/kg to 1,910 mg/kg in soil samples collected from surface to 5 ft. bgs. The chloride concentrations observed in the Mobley Borehole area appear to be indicative of background levels in the area. The collection of the samples followed the Procedures for Implementation of the Spill Rule (19.15.29 NMAC); Section XII.

A summary of BTEX, chloride, and TPH concentrations of all collected soil samples is attached as Table 1.

Section 9 – Conclusion and Closure Request


Based on the laboratory results of the confirmation sampling following excavation activities, the response action of the release at the Mobley Water Recycling facility on February 17, 2023, through April 20, 2023, has met the closure criteria defined in accordance with NMAC 19.15.29.12. Terracon respectfully requests regulatory closure of incident nAPP2234144689 on behalf of Solaris Water Midstream.

APPENDIX A – EXHIBITS



 Site Location

Project No.:
KH227027
Date:
Sep 27 2023
Drawn By:
JWL
Reviewed By:
JRG



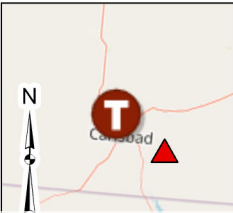
Terracon
4526 W Pierce St
Carlsbad, NM
PH. 806-300-0140 terracon.com

Topographic Map

Mobley Water Facility
Eddy County, New Mexico
32.2958135, -103.9252036


Exhibit

1



 Excavation Boundary

Project No.:
KH227027
Date:
Sep 27 2023
Drawn By:
JWL
Reviewed By:
JRG



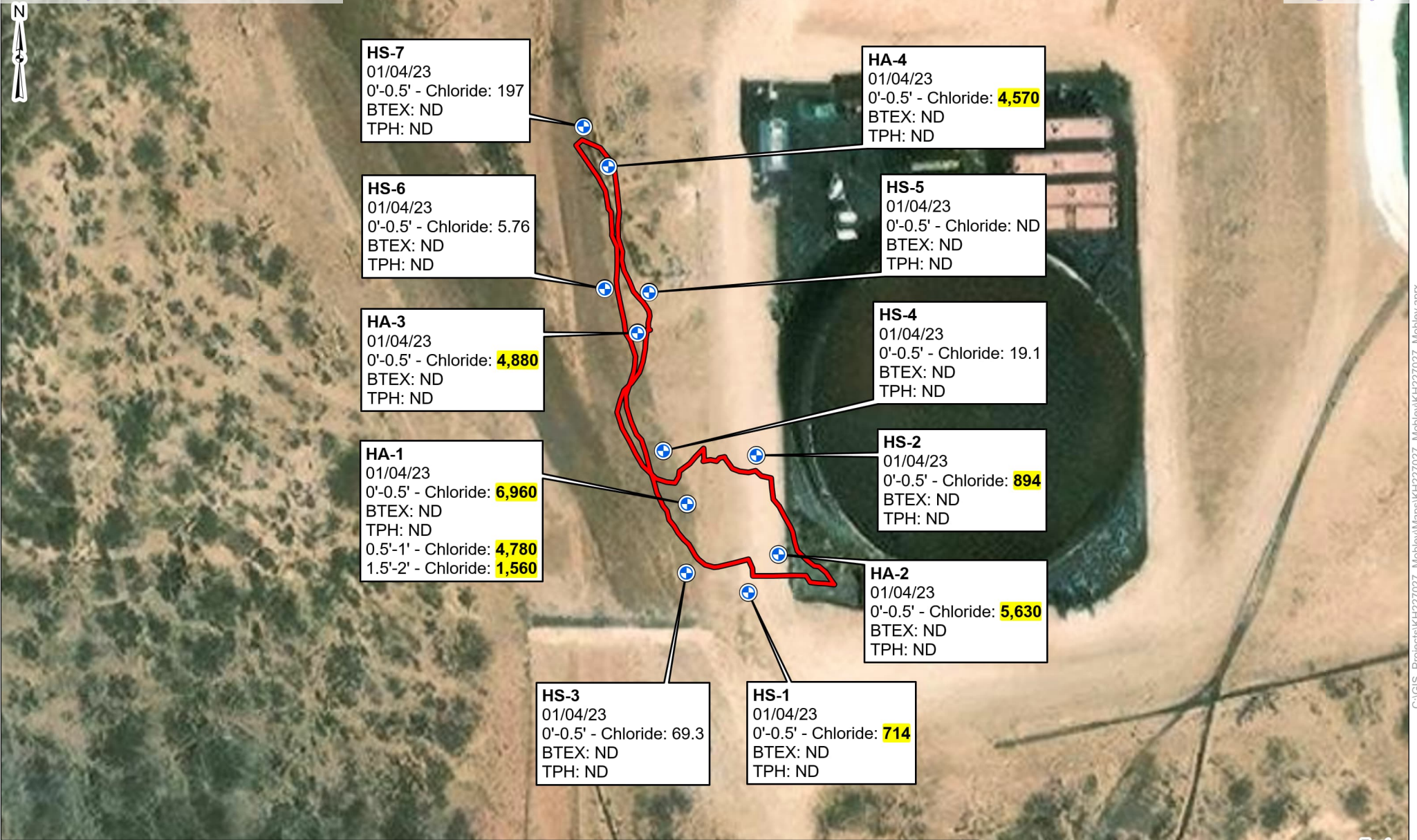
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Site Location Map

Mobley Water Facility
Eddy County, New Mexico
32.2958135, -103.9252036

Exhibit

2



NMOCD RAL = 600 mg/kg for chloride
Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards



Site Sample
 Inferred Release
 All Measurements in mg/kg

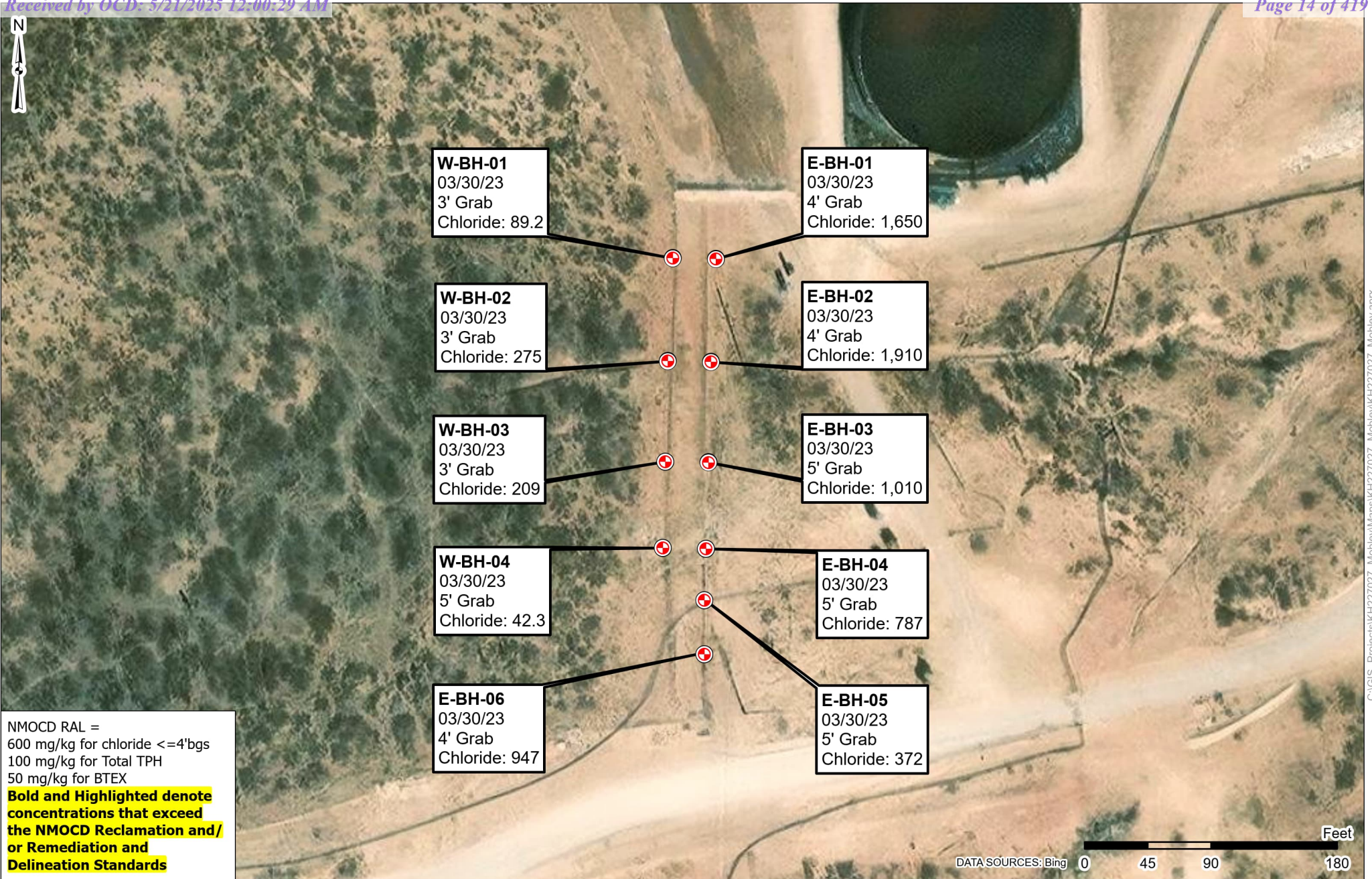
Project No.: KH227027
 Date: Oct 04 2023
 Drawn By: JWL
 Reviewed By: JRG

4526 W Pierce St
 Carlsbad, NM
 PH. 806-300-0140 terracon.com

Site Sample Map
 Mobley Water Facility
 Eddy County, New Mexico
 32.2958135, -103.9252036

Exhibit
3

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NMOCD RAL =
 600 mg/kg for chloride <=4'bgs
 100 mg/kg for Total TPH
 50 mg/kg for BTEX

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards



Hand Auger Location
 All Measurements in mg/kg

Project No.: KH227027
 Date: Oct 05 2023
 Drawn By: JWJ
 Reviewed By: JRG

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 Carlsbad, NM
 PH. 806-300-0140 terracon.com

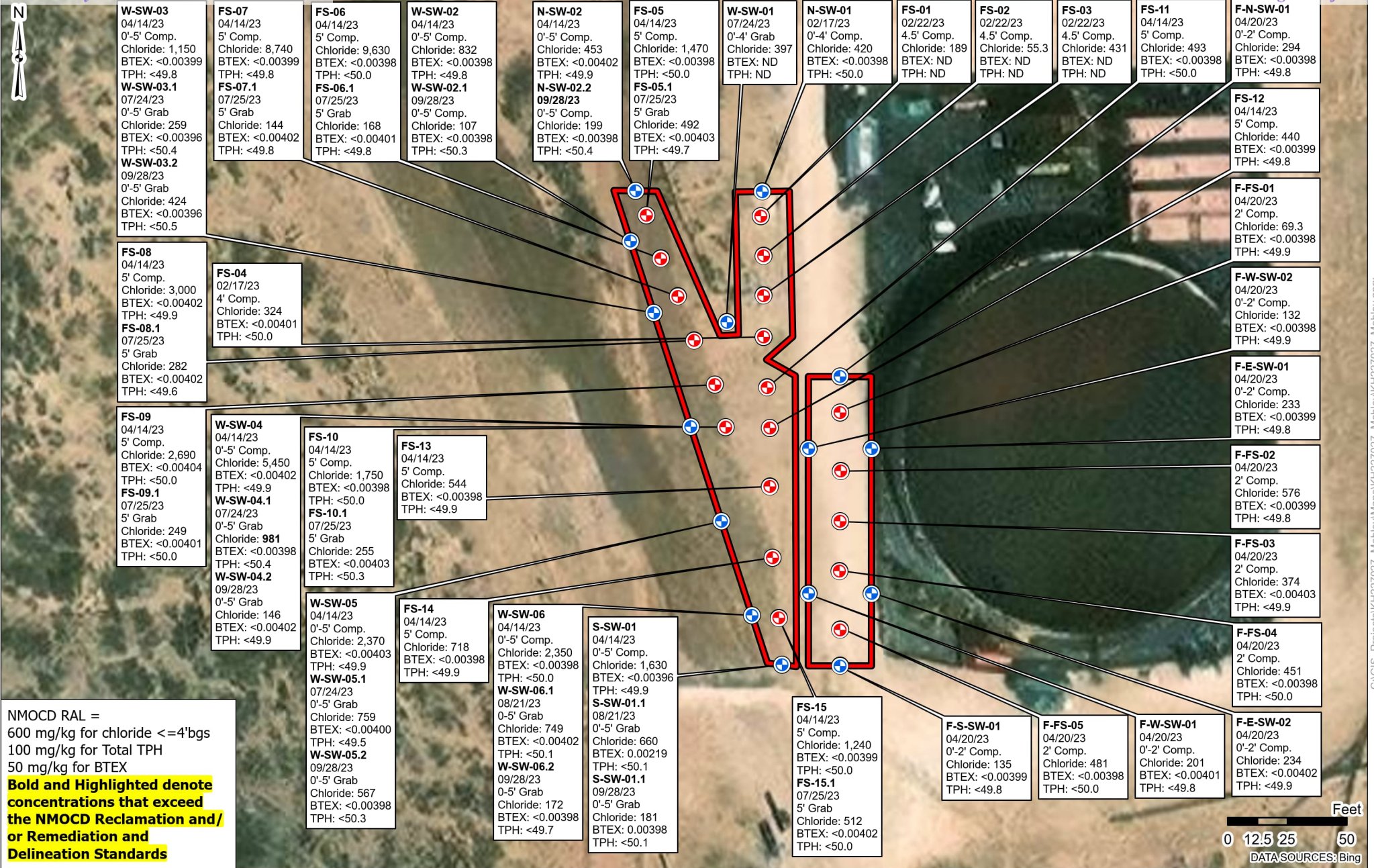
Background Soil Sample Map

Mobley Water Facility
 Eddy County, New Mexico
 32.2958135, -103.9252036

Exhibit

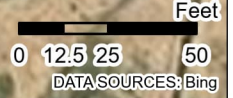
4

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NMOCD RAL =
 600 mg/kg for chloride <=4'bgs
 100 mg/kg for Total TPH
 50 mg/kg for BTEX

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards



- Excavation Boundary
- Sample Location
- Floor
- Wall

Project No.: KH227027
 Date: Oct 05 2023
 Drawn By: JWJ
 Reviewed By: JRG

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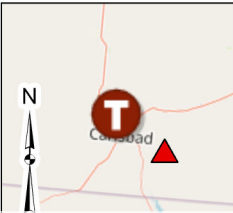
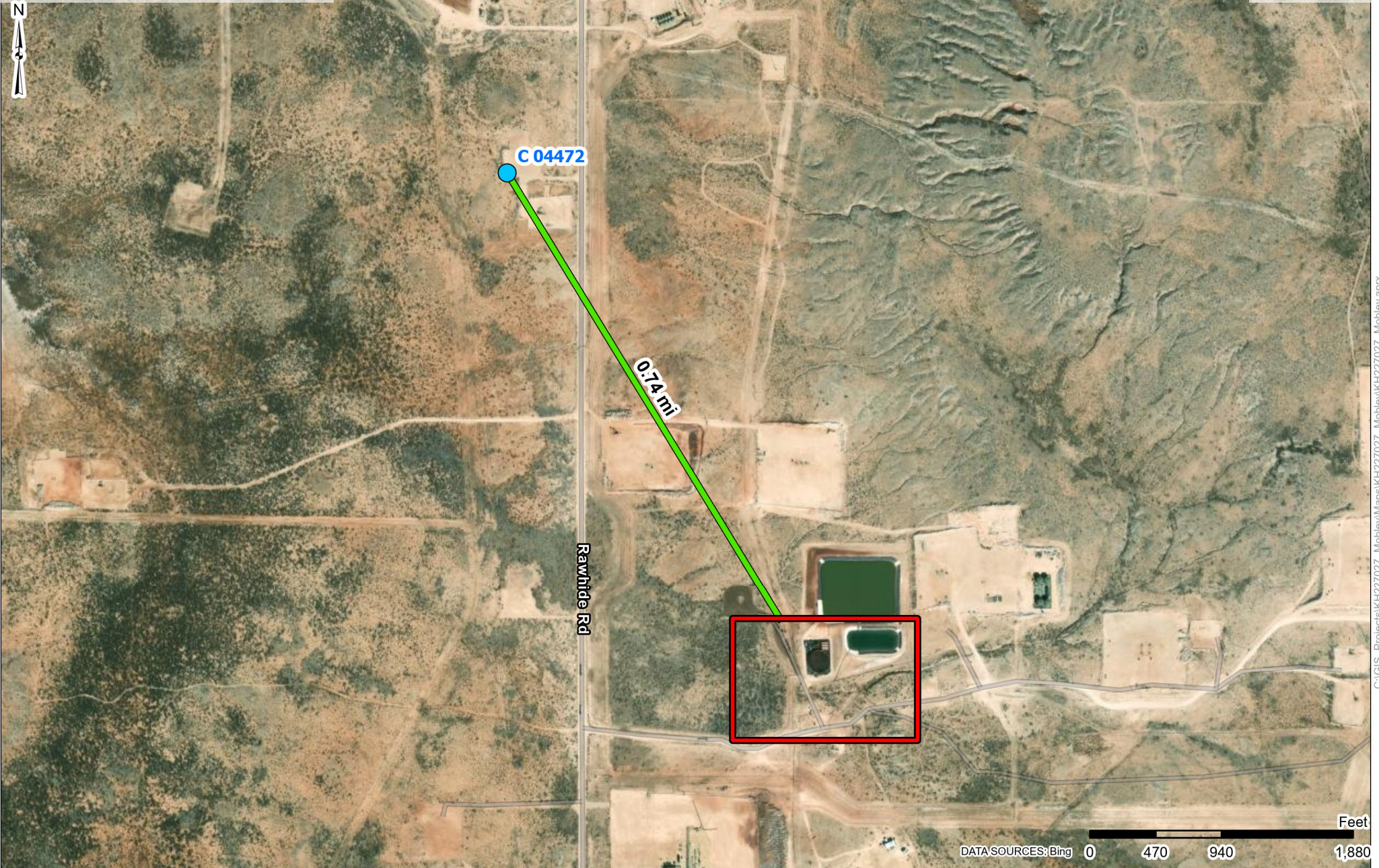
Confirmation Sample Map

Mobley Water Facility
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Exhibit

5

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- Site Location
- NMOSE POD Location

Project No.:
KH227027

Date:
Oct 05 2023

Drawn By:
JWL

Reviewed By:
JRG



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Carlsbad, NM

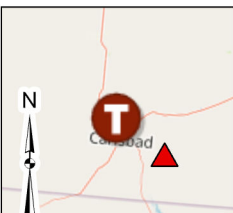
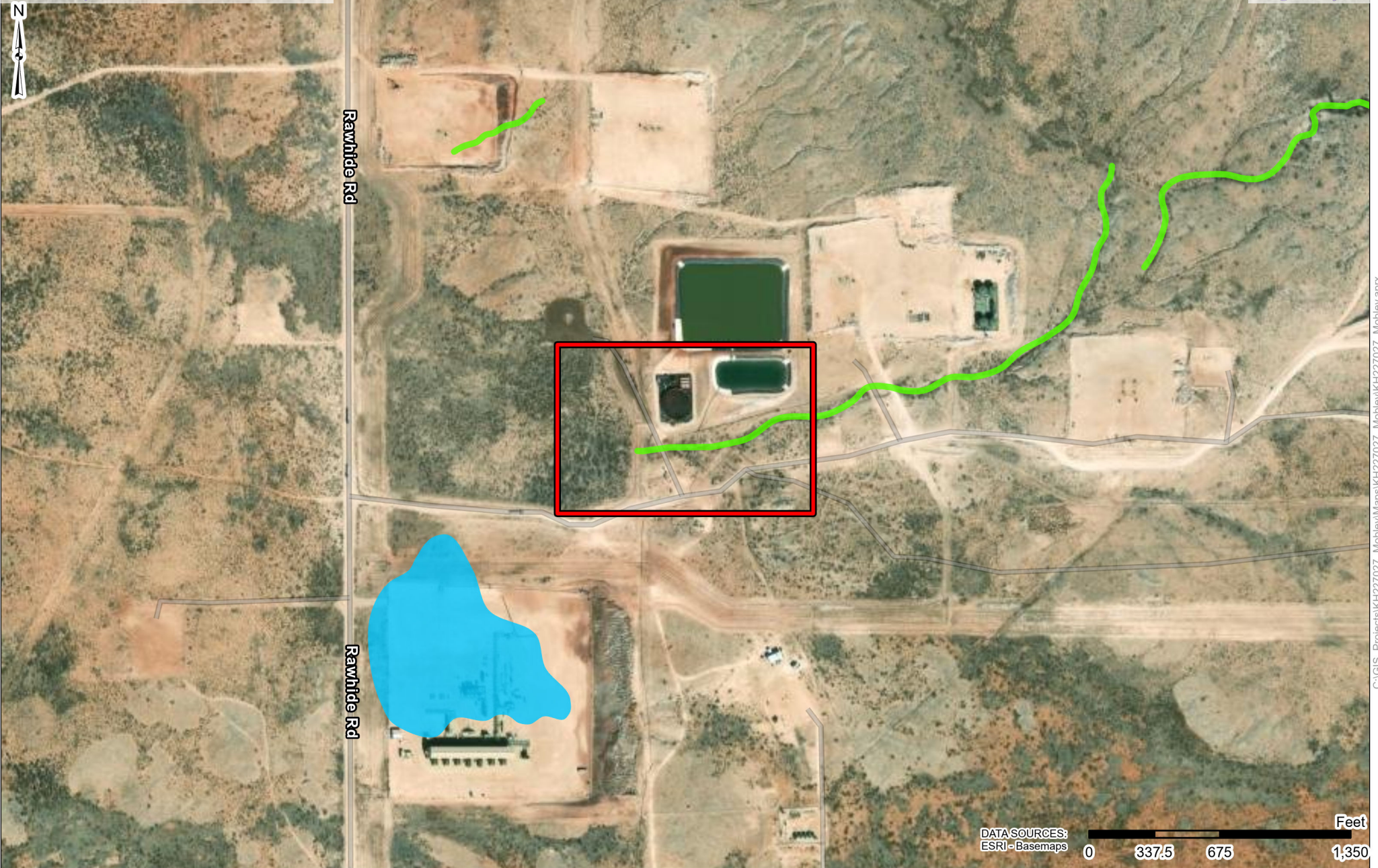
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NMOSE POD Location Map

Mobley Water Facility
Eddy County, New Mexico
32.2958135, -103.9252036

Exhibit

6



- ▭ Site Location
- ▭ Freshwater Emergent Wetland
- ▬ Riverine

Project No.:
KH227027

Date:
Oct 05 2023

Drawn By:
JWL

Reviewed By:
JRG



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Carlsbad, NM

PH. 806-300-0140

terracon.com

Designated Wetland Area Map

Mobley Water Facility
Eddy County, New Mexico
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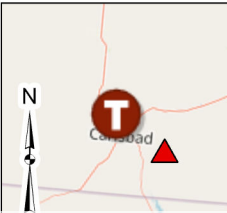
Exhibit

7



DATA SOURCES:
ESRI - Basemaps

0 1,500 3,000 6,000 Feet



 Site Location

Karst Potential

 Low

 Medium


 High

Project No.:
KH227027

Date:
Oct 05 2023

Drawn By:
JWL

Reviewed By:
JRG



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Carlsbad, NM

PH. 806-300-0140 terracon.com

Cave Karst Public UCP Map

Mobley Water Facility
Eddy County, New Mexico
32.2958135, -103.9252036

Exhibit

8

APPENDIX B – TABLES AND WELL DATA

Table 1
Soil Analytical Results Summary - Release Assessment
Mobley Water Recycle Facility
NMOCD Reference No. nAPP2234144689

SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH (FT)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	
Release Assessment											
HA-1	1/4/2023	0-0.5	Discrete	Excavated	6960	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9
		0.5-1	Discrete	Excavated	4780	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8
		1.5-2	Discrete	Excavated	1560	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9
HA-2	1/4/2023	0-0.5	Discrete	Excavated	5630	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8
HA-3	1/4/2023	0-0.5	Discrete	Excavated	4880	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9
HA-4	1/4/2023	0.5-1	Discrete	Excavated	4570	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0
HS-1	1/4/2023	0-0.5	Discrete	Excavated	714	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0
HS-2	1/4/2023	0-0.5	Discrete	Excavated	894	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9
HS-3	1/4/2023	0-0.5	Discrete	Excavated	69.3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0
HS-4	1/4/2023	0-0.5	Discrete	Excavated	19.1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8
HS-5	1/4/2023	0-0.5	Discrete	Excavated	<4.97	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0
HS-6	1/4/2023	0-0.5	Discrete	Excavated	5.76	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0
HS-7	1/4/2023	0-0.5	Discrete	Excavated	197	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9
NMOCD Reclamation Standards³ (Surface to 4 ft bgs)					600	10	50	100	N/A		
NMOCD Remediation Standards⁴ (Greater than Depths of 4 ft bgs)					600	10	50	100	N/A		

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs

4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

< = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Analyzed

Bold denotes concentrations above applicable laboratory SDLs.

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

Table 2
Soil Analytical Results Summary - Background Soil Assessment
Mobley Water Recycle Facility
NMOCD Reference No. nAPP2234144689

Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
				EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Background Soil Assessment										
E-BH-01	03/21/2023	4	Discrete	1650				NA		
E-BH-02	03/21/2023	4	Discrete	1910				NA		
E-BH-03	03/21/2023	5	Discrete	1010				NA		
E-BH-04	03/22/2023	5	Discrete	787				NA		
E-BH-05	03/22/2023	5	Discrete	372				NA		
E-BH-06	03/22/2023	4	Discrete	947				NA		
W-BH-01	03/21/2023	3	Discrete	89.2				NA		
W-BH-02	03/21/2023	3	Discrete	275				NA		
W-BH-03	03/21/2023	3	Discrete	209				NA		
W-BH-04	03/21/2023	5	Discrete	42.3				NA		
NMOCD Reclamation Standards³				600	10	50	100		N/A	
NMOCD Remediation Standards⁴				600	10	50	100		N/A	

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4

4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

< = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Analyzed

Bold denotes concentrations above applicable laboratory SDLs.

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

Table 3
Soil Analytical Results Summary - Confirmation Evaluation (Floor Samples)
Mobley Water Recycle Facility
NMOCD Reference No. nAPP2234144689

Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	
Release Delineation Assessment (Floor Samples)											
FS04	2/17/2023	4	Composite	In-situ	324	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0
FS-01	2/22/2023	4.5	Composite	In-situ	189				NA		
FS-02	2/22/2023	4.5	Composite	In-situ	55.3				NA		
FS-03	2/22/2023	4.5	Composite	In-situ	431				NA		
FS-04	2/22/2023	4.5	Composite	In-situ	178				NA		
FS-05	4/14/2023	5	Composite	Excavated	1,470	<0.00199	<0.00398	58.8	58.8	<50.0	<50.0
FS-06	4/14/2023	5	Composite	Excavated	9,630	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0
FS-07	4/14/2023	5	Composite	Excavated	8,740	<0.0200	<0.00399	<49.8	<49.8	<49.8	<49.8
FS-08	4/14/2023	5	Composite	Excavated	3,000	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9
FS-09	4/14/2023	5	Composite	Excavated	2,690	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0
FS-10	4/14/2023	5	Composite	Excavated	1,750	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9
FS-11	4/14/2023	5	Composite	In-situ	493	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0
FS-12	4/14/2023	5	Composite	In-situ	440	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8
FS-13	4/14/2023	5	Composite	In-situ	544	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9
FS-14	4/14/2023	5	Composite	In-situ	718	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9
FS-15	4/14/2023	5	Composite	Excavated	1,240	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0
F-FS01	4/20/2023	0-2	Composite	In-situ	69.3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9
F-FS02	4/20/2023	0-2	Composite	In-situ	576	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8
F-FS03	4/20/2023	0-2	Composite	In-situ	374	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9
F-FS04	4/20/2023	0-2	Composite	In-situ	451	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0
F-FS05	4/20/2023	0-2	Composite	In-situ	481	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0
FS-05.1	7/25/2023	5	Composite	In-situ	492	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7
FS-06.1	7/25/2023	5	Composite	In-situ	168	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8
FS-07.1	7/25/2023	5	Composite	In-situ	144	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8
FS-08.1	7/24/2023	5	Composite	In-situ	282	<0.00201	<0.00402	<49.6	<49.6	<49.6	<49.6
FS-09.1	7/24/2023	5	Composite	In-situ	249	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0
FS-10.1	7/24/2023	5	Composite	In-situ	255	<0.00202	<0.00403	<50.3	<50.3	<50.3	<50.3
FS-15.1	7/24/2023	5	Composite	In-situ	512	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0
NMOCD Reclamation Standards³					600	10	50	100	N/A		
NMOCD Remediation Standards⁴					600	10	50	100	N/A		

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs

4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

< = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Analyzed

Bold denotes concentrations above applicable laboratory SDLs.

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

Table 4
Soil Analytical Results Summary - Confirmation Evaluation (Wall Samples)
Mobley Water Recycle Facility
NMOCD Reference No. nAPP2234144689

Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	
Release Delineation Assessment (Wall Samples)											
N-SW-01	2/17/2023	0-4	Composite	In-situ	420	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0
E-SW-01	2/17/2023	0-4	Composite	In-situ	87	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9
W-SW-01	2/22/2023	0-4	Composite	In-situ	397				NA		
N-SW-2	4/14/2023	0 - 5	Composite	In-situ	453	<0.00201	<0.00402	209	124	<49.9	84.5
E-SW-2	4/14/2023	0 - 5	Composite	Excavated	30,500	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0
E-SW-4	4/14/2023	0 - 5	Composite	In-situ	74.9	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0
W-SW-2	4/14/2023	0 - 5	Composite	In-situ	832	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8
W-SW-3	4/14/2023	0 - 5	Composite	Excavated	1150	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8
W-SW-4	4/14/2023	0 - 5	Composite	Excavated	5450	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9
W-SW-5	4/14/2023	0 - 5	Composite	Excavated	2370	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9
W-SW-6	4/14/2023	0 - 5	Composite	Excavated	2350	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0
S-SW-1	4/14/2023	0 - 5	Composite	Excavated	1630	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9
F-E-SW1	4/20/2023	0-2	Composite	In-situ	233	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8
F-E-SW2	4/20/2023	0-2	Composite	In-situ	234	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9
F-N-SW1	4/20/2023	0-2	Composite	In-situ	294	<0.00199	<0.00398	75.6	75.6	<49.8	<49.8
F-S-SW1	4/20/2023	0-2	Composite	In-situ	135	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0
F-W-SW1	4/20/2023	0-2	Composite	In-situ	201	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8
F-W-SW2	4/20/2023	0-2	Composite	In-situ	132	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9
W-SW-03.1	7/24/2023	0 - 5	Composite	In-situ	259	<0.00198	<0.00396	<50.4	<50.4	<50.4	<50.4
W-SW-04.1	7/24/2023	0 - 5	Composite	In-situ	981	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4
W-SW-05.1	7/24/2023	0 - 5	Composite	In-situ	759	<0.00200	<0.00400	<49.5	<49.5	<49.5	<49.5
S-SW-01.1	8/21/2023	0 - 5	Composite	In-situ	749	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1
W-SW-06.1	8/21/2023	0 - 5	Composite	In-situ	660	<0.00202	0.0219	<50.1	<50.1	<50.1	<50.1
N-SW-02.2	9/28/2023	0-5'	Composite	In-situ	199	<0.00200	<0.00399	<50.4	<50.4	<50.4	<50.4
S-SW-01.2	9/28/2023	0-5'	Composite	In-situ	181	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1
W-SW-02.1	9/28/2023	0-5'	Composite	In-situ	107	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3
W-SW-03.2	9/28/2023	0-5'	Composite	In-situ	424	<0.00198	<0.00396	<50.5	<50.5	<50.5	<50.5
W-SW-04.2	9/28/2023	0-5'	Composite	In-situ	146	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9
W-SW-05.2	9/28/2023	0-5'	Composite	In-situ	567	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3
W-SW-06.2	9/28/2023	0-5'	Composite	In-situ	172	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7
NMOCD Reclamation Standards³					600	10	50	100		N/A	
NMOCD Remediation Standards⁴					600	10	50	100		N/A	

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

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Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.



New Mexico Office of the State Engineer Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04472 POD1	2	2	4	13	23S	29E	600639	3574619 

Driller License:	1249	Driller Company:	ATKINS ENGINEERING ASSOC. INC.		
Driller Name:	ATKINS, JACKIE D.UELENER				
Drill Start Date:	09/11/2020	Drill Finish Date:	09/11/2020	Plug Date:	09/15/2020
Log File Date:	10/06/2020	PCW Rev Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:		Depth Well:		Depth Water:	37 feet

Water Bearing Stratifications:	Top	Bottom	Description
	19	40	Limestone/Dolomite/Chalk
	40	55	Shale/Mudstone/Siltstone

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/29/22 9:49 AM

POINT OF DIVERSION SUMMARY

APPENDIX C – PHOTOGRAPHIC LOG

Mobley Water Reuse Facility ■ Eddy County, New Mexico
September 27, 2023 ■ Terracon Project No. KH227027



PHOTO 1: View of northern extent of the excavation.



PHOTO 2: View of northern extent of the excavation.

Responsive ■ Resourceful ■ Reliable

Mobley Water Reuse Facility ■ Eddy County, New Mexico
September 27, 2023 ■ Terracon Project No. KH227027



PHOTO 3: View of central excavation area.



PHOTO 4: View of southern extent of the excavation.

Responsive ■ Resourceful ■ Reliable

Mobley Water Reuse Facility ■ Eddy County, New Mexico
September 27, 2023 ■ Terracon Project No. KH227027



PHOTO 5: View of the excavation area facing north.



PHOTO 6: View of water sample location.

Responsive ■ Resourceful ■ Reliable

Mobley Water Reuse Facility ■ Eddy County, New Mexico
September 27, 2023 ■ Terracon Project No. KH227027



PHOTO 7: View of water sample location.



PHOTO 8: View of water sample location.

Responsive ■ Resourceful ■ Reliable

Mobley Water Reuse Facility ■ Eddy County, New Mexico
September 27, 2023 ■ Terracon Project No. KH227027



PHOTO 9: View of water sample location.



PHOTO 10: View of water sample location.

Responsive ■ Resourceful ■ Reliable

Mobley Water Reuse Facility ■ Eddy County, New Mexico
September 27, 2023 ■ Terracon Project No. KH227027



PHOTO 11: View of east borehole (E BH) 01



PHOTO 12: View of east borehole (E BH) 02

Responsive ■ Resourceful ■ Reliable

Mobley Water Reuse Facility ■ Eddy County, New Mexico
September 27, 2023 ■ Terracon Project No. KH227027



PHOTO 13: View of east borehole (E BH) 03



PHOTO 14: View of east borehole (E BH) 04

Responsive ■ Resourceful ■ Reliable

Mobley Water Reuse Facility ■ Eddy County, New Mexico
September 27, 2023 ■ Terracon Project No. KH227027



Terracon
KH227027 Mobley
E BH 5
03.22.2023 11:49 AM
32.29554, -103.92404 (±10ft)
Altitude: 2978ft

PHOTO 15: View of east borehole (E BH) 05



Terracon
KH227027 Mobley
E BH 6
03.22.2023 12:25 PM
32.29555, -103.92389 (±13ft)
Altitude: 2990ft

PHOTO 16: View of east borehole (E BH) 06

Responsive ■ Resourceful ■ Reliable

Mobley Water Reuse Facility ■ Eddy County, New Mexico
September 27, 2023 ■ Terracon Project No. KH227027



Terracon
KH227027 Mobley
W BH 1
03.22.2023 12:58 PM
32.29501, -103.92553 (±11ft)
Altitude: 2947ft

PHOTO 17: View of west borehole (W BH) 01



Terracon
KH227027 Mobley
W BH 2
03.22.2023 01:01 PM
32.29514, -103.92549 (±17ft)
Altitude: 2953ft

PHOTO 18: View of west borehole (W BH) 02

Responsive ■ Resourceful ■ Reliable

Mobley Water Reuse Facility ■ Eddy County, New Mexico
September 27, 2023 ■ Terracon Project No. KH227027



Terracon
KH227027 Mobley
W BH 3
03.22.2023 01:05 PM
32.29533, -103.9255 (±10ft)
Altitude: 2955ft

PHOTO 19: View of west borehole (W BH) 03



Terracon
KH227027 Mobley
W BH 4
03.22.2023 01:11 PM
32.29554, -103.92554 (±18ft)
Altitude: 2959ft

PHOTO 20: View of west borehole (W BH) 04

Responsive ■ Resourceful ■ Reliable

APPENDIX D – ANALYTICAL REPORT AND CHAIN OF CUSTODY



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Travis Casey
 Terracon Consulting Eng & Scientists
 5847 50th St
 Lubbock, Texas 79424
 Generated 3/1/2023 1:38:09 PM

JOB DESCRIPTION

Mobley Water Facility
 SDG NUMBER KH227027

JOB NUMBER

890-4175-1

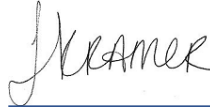


Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
3/1/2023 1:38:09 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Eurofins Carlsbad

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Laboratory Job ID: 890-4175-1
SDG: KH227027

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 890-4175-1
SDG: KH227027

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 890-4175-1
SDG: KH227027

Job ID: 890-4175-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-4175-1**

Receipt

The samples were received on 2/22/2023 3:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS-04 4.5 (890-4175-1), FS-02 4.5 (890-4175-2), FS-01 4.5 (890-4175-3), FS-03 4.5 (890-4175-4) and W-SW-01 (890-4175-5).

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-47347 and analytical batch 880-47423 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 890-4175-1
 SDG: KH227027

Client Sample ID: FS-04 4.5

Lab Sample ID: 890-4175-1

Date Collected: 02/22/23 11:30

Matrix: Solid

Date Received: 02/22/23 15:12

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178	F1	5.02		mg/Kg			02/28/23 14:09	1

Client Sample ID: FS-02 4.5

Lab Sample ID: 890-4175-2

Date Collected: 02/22/23 11:35

Matrix: Solid

Date Received: 02/22/23 15:12

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.3		4.98		mg/Kg			02/28/23 14:27	1

Client Sample ID: FS-01 4.5

Lab Sample ID: 890-4175-3

Date Collected: 02/22/23 11:40

Matrix: Solid

Date Received: 02/22/23 15:12

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	189		5.00		mg/Kg			02/28/23 14:33	1

Client Sample ID: FS-03 4.5

Lab Sample ID: 890-4175-4

Date Collected: 02/22/23 11:50

Matrix: Solid

Date Received: 02/22/23 15:12

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	431		4.95		mg/Kg			02/28/23 14:40	1

Client Sample ID: W-SW-01

Lab Sample ID: 890-4175-5

Date Collected: 02/22/23 11:45

Matrix: Solid

Date Received: 02/22/23 15:12

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	397		5.01		mg/Kg			02/28/23 14:46	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 890-4175-1
 SDG: KH227027

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47347/1-A
 Matrix: Solid
 Analysis Batch: 47423

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/28/23 13:50	1

Lab Sample ID: LCS 880-47347/2-A
 Matrix: Solid
 Analysis Batch: 47423

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	225.2		mg/Kg		90	90 - 110

Lab Sample ID: LCSD 880-47347/3-A
 Matrix: Solid
 Analysis Batch: 47423

Client Sample ID: Lab Control Sample Dup
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	229.1		mg/Kg		92	90 - 110	2	20

Lab Sample ID: 890-4175-1 MS
 Matrix: Solid
 Analysis Batch: 47423

Client Sample ID: FS-04 4.5
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	178	F1	251	402.9		mg/Kg		90	90 - 110

Lab Sample ID: 890-4175-1 MSD
 Matrix: Solid
 Analysis Batch: 47423

Client Sample ID: FS-04 4.5
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	178	F1	251	399.3	F1	mg/Kg		88	90 - 110	1	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 890-4175-1
 SDG: KH227027

HPLC/IC

Leach Batch: 47347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4175-1	FS-04 4.5	Soluble	Solid	DI Leach	
890-4175-2	FS-02 4.5	Soluble	Solid	DI Leach	
890-4175-3	FS-01 4.5	Soluble	Solid	DI Leach	
890-4175-4	FS-03 4.5	Soluble	Solid	DI Leach	
890-4175-5	W-SW-01	Soluble	Solid	DI Leach	
MB 880-47347/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47347/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47347/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4175-1 MS	FS-04 4.5	Soluble	Solid	DI Leach	
890-4175-1 MSD	FS-04 4.5	Soluble	Solid	DI Leach	

Analysis Batch: 47423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4175-1	FS-04 4.5	Soluble	Solid	300.0	47347
890-4175-2	FS-02 4.5	Soluble	Solid	300.0	47347
890-4175-3	FS-01 4.5	Soluble	Solid	300.0	47347
890-4175-4	FS-03 4.5	Soluble	Solid	300.0	47347
890-4175-5	W-SW-01	Soluble	Solid	300.0	47347
MB 880-47347/1-A	Method Blank	Soluble	Solid	300.0	47347
LCS 880-47347/2-A	Lab Control Sample	Soluble	Solid	300.0	47347
LCSD 880-47347/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47347
890-4175-1 MS	FS-04 4.5	Soluble	Solid	300.0	47347
890-4175-1 MSD	FS-04 4.5	Soluble	Solid	300.0	47347

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 890-4175-1
 SDG: KH227027

Client Sample ID: FS-04 4.5

Lab Sample ID: 890-4175-1

Date Collected: 02/22/23 11:30

Matrix: Solid

Date Received: 02/22/23 15:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	47347	02/27/23 15:44	KS	EET MID
Soluble	Analysis	300.0		1			47423	02/28/23 14:09	CH	EET MID

Client Sample ID: FS-02 4.5

Lab Sample ID: 890-4175-2

Date Collected: 02/22/23 11:35

Matrix: Solid

Date Received: 02/22/23 15:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	47347	02/27/23 15:44	KS	EET MID
Soluble	Analysis	300.0		1			47423	02/28/23 14:27	CH	EET MID

Client Sample ID: FS-01 4.5

Lab Sample ID: 890-4175-3

Date Collected: 02/22/23 11:40

Matrix: Solid

Date Received: 02/22/23 15:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	47347	02/27/23 15:44	KS	EET MID
Soluble	Analysis	300.0		1			47423	02/28/23 14:33	CH	EET MID

Client Sample ID: FS-03 4.5

Lab Sample ID: 890-4175-4

Date Collected: 02/22/23 11:50

Matrix: Solid

Date Received: 02/22/23 15:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	47347	02/27/23 15:44	KS	EET MID
Soluble	Analysis	300.0		1			47423	02/28/23 14:40	CH	EET MID

Client Sample ID: W-SW-01

Lab Sample ID: 890-4175-5

Date Collected: 02/22/23 11:45

Matrix: Solid

Date Received: 02/22/23 15:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	47347	02/27/23 15:44	KS	EET MID
Soluble	Analysis	300.0		1			47423	02/28/23 14:46	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 890-4175-1
SDG: KH227027

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 890-4175-1
SDG: KH227027

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 890-4175-1
SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4175-1	FS-04 4.5	Solid	02/22/23 11:30	02/22/23 15:12
890-4175-2	FS-02 4.5	Solid	02/22/23 11:35	02/22/23 15:12
890-4175-3	FS-01 4.5	Solid	02/22/23 11:40	02/22/23 15:12
890-4175-4	FS-03 4.5	Solid	02/22/23 11:50	02/22/23 15:12
890-4175-5	W-SW-01	Solid	02/22/23 11:45	02/22/23 15:12

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CHAIN OF CUSTODY RECORD

Terracon

Office Location 4518 W. Pierce St Carlsbad NM, 88220

Project Manager Travis Casey
Sampler's Name Justin Friend
SRS #: _____
Sample's Signature Justin Friend

Project Name Mobley water Facility

Project Number K11227027
Identifying Marks of Sample(s) _____

Matrix	Date	Time	Comp	Grab	Start Depth	End Depth	No. Type of Containers
S	2-22-23	11:30					4 oz Glass
	2-22-23	11:35					2 oz Glass
	2-22-23	11:40					250 ml Poly
	2-22-23	11:50					
	2-22-23	11:45					

TRRP Laboratory Review Checklist	Yes	No
Chloride (EPA Method 300)		
TPH Extended 8015		
BTEX (EPA Method 8021B)		

ANALYSIS REQUEST

LAB USE ONLY/DUE DATE:

Page 1 of 1

TURNAROUND TIME	Normal	48-Hour Rush	24-Hour Rush	TRRP Laboratory Review Checklist	Yes	No
Relinquished by (Signature)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Received by (Signature)		
Relinquished by (Signature)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Received by (Signature)		
Relinquished by (Signature)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Received by (Signature)		

TEMP OF COOLER 1.0 / 0.8
WHEN RECEIVED (OC) T.N.W. 007 - 0.2

Matrix WW-Wastewater W - Water S - Soil L - Liquid A - Air Bag C - Charcoal tube SL - Sludge
Container VOA - 40 ml vial A/G - Amber G 250 ml = Glass wide mouth P/O - Plastic or other

Lubbock Office ■ 5827 50th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140

Bill To: Solaris Water Midstream, LLC
Attn Rob

e-mail results to:
joseph.guesnier@terracon.com
travis.casey@terracon.com
mike.adams@terracon.com
beckysue.miller@terracon.com
jimfriend@terracon.com



Lab Sample ID
FS-04 4.S1
FS-02 4.S1
FS-01 4.S1
FS-03 4.S1
LV-SW-01

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4175-1

SDG Number: KH227027

Login Number: 4175

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4175-1

SDG Number: KH227027

Login Number: 4175

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 02/24/23 10:52 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Travis Casey
 Terracon Consulting Eng & Scientists
 5847 50th St
 Lubbock, Texas 79424

Generated 3/28/2023 8:06:31 AM Revision 1

JOB DESCRIPTION

Mobley Water Facility
 SDG NUMBER KH227027

JOB NUMBER

890-4287-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Generated
3/28/2023 8:06:31 AM
Revision 1

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Laboratory Job ID: 890-4287-1
SDG: KH227027

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 890-4287-1
SDG: KH227027

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

HPLC/IC

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 890-4287-1
SDG: KH227027

Job ID: 890-4287-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-4287-1**

REVISION

The report being provided is a revision of the original report sent on 3/22/2023. The report (revision 1) is being revised due to Per client email, added chloride to job.

Report revision history

Receipt

The samples were received on 3/10/2023 3:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: WS-1 (890-4287-1), WS-2 (890-4287-2), WS-3 (890-4287-3), WS-4 (890-4287-4), WS-5 (890-4287-5), WS-6 (890-4287-6), WS-7 (890-4287-7) and WS-8 (890-4287-8). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: WS-9 (890-4287-9) and WS-10 (890-4287-10). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water FacilityJob ID: 890-4287-1
SDG: KH227027Client Sample ID: WS-1
Date Collected: 03/10/23 13:16
Date Received: 03/10/23 15:40Lab Sample ID: 890-4287-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 16:23	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/15/23 16:23	1
Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L			03/15/23 16:23	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 16:23	1
o-Xylene	<0.00100	U	0.00100	0.000551	mg/L			03/15/23 16:23	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		63 - 144		03/15/23 16:23	1
4-Bromofluorobenzene (Surr)	93		74 - 124		03/15/23 16:23	1
Dibromofluoromethane (Surr)	102		75 - 131		03/15/23 16:23	1
Toluene-d8 (Surr)	96		80 - 117		03/15/23 16:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/16/23 17:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.64	U	4.64	0.918	mg/L			03/20/23 16:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.64	U	4.64	0.918	mg/L		03/15/23 13:05	03/16/23 14:13	1
Diesel Range Organics (Over C10-C28)	<4.64	U	4.64	0.918	mg/L		03/15/23 13:05	03/16/23 14:13	1
Oil Range Organics (Over C28-C36)	<4.64	U	4.64	0.886	mg/L		03/15/23 13:05	03/16/23 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 135	03/15/23 13:05	03/16/23 14:13	1
o-Terphenyl	102		70 - 135	03/15/23 13:05	03/16/23 14:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2710		5.00	2.00	mg/L			03/25/23 03:30	10

Client Sample ID: WS-2
Date Collected: 03/10/23 13:22
Date Received: 03/10/23 15:40Lab Sample ID: 890-4287-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 16:46	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/15/23 16:46	1
Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L			03/15/23 16:46	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 16:46	1
o-Xylene	<0.00100	U	0.00100	0.000551	mg/L			03/15/23 16:46	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		03/15/23 16:46	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water FacilityJob ID: 890-4287-1
SDG: KH227027

Client Sample ID: WS-2

Lab Sample ID: 890-4287-2

Date Collected: 03/10/23 13:22

Matrix: Water

Date Received: 03/10/23 15:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		74 - 124		03/15/23 16:46	1
Dibromofluoromethane (Surr)	103		75 - 131		03/15/23 16:46	1
Toluene-d8 (Surr)	97		80 - 117		03/15/23 16:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/16/23 17:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.55	U	4.55	0.898	mg/L			03/20/23 16:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.55	U	4.55	0.898	mg/L		03/15/23 13:05	03/16/23 14:33	1
Diesel Range Organics (Over C10-C28)	<4.55	U	4.55	0.898	mg/L		03/15/23 13:05	03/16/23 14:33	1
Oil Range Organics (Over C28-C36)	<4.55	U	4.55	0.867	mg/L		03/15/23 13:05	03/16/23 14:33	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	111		70 - 135	03/15/23 13:05	03/16/23 14:33	1			
o-Terphenyl	115		70 - 135	03/15/23 13:05	03/16/23 14:33	1			

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2900		5.00	2.00	mg/L			03/25/23 03:54	10

Client Sample ID: WS-3

Lab Sample ID: 890-4287-3

Date Collected: 03/10/23 13:27

Matrix: Water

Date Received: 03/10/23 15:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 17:10	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/15/23 17:10	1
Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L			03/15/23 17:10	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 17:10	1
o-Xylene	<0.00100	U	0.00100	0.000551	mg/L			03/15/23 17:10	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 17:10	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4 (Surr)	109		63 - 144		03/15/23 17:10	1			
4-Bromofluorobenzene (Surr)	93		74 - 124		03/15/23 17:10	1			
Dibromofluoromethane (Surr)	104		75 - 131		03/15/23 17:10	1			
Toluene-d8 (Surr)	98		80 - 117		03/15/23 17:10	1			

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/16/23 17:52	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water FacilityJob ID: 890-4287-1
SDG: KH227027

Client Sample ID: WS-3

Lab Sample ID: 890-4287-3

Date Collected: 03/10/23 13:27

Matrix: Water

Date Received: 03/10/23 15:40

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.59	U	4.59	0.906	mg/L			03/20/23 16:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.59	U	4.59	0.906	mg/L		03/15/23 13:05	03/16/23 14:52	1
Diesel Range Organics (Over C10-C28)	<4.59	U	4.59	0.906	mg/L		03/15/23 13:05	03/16/23 14:52	1
Oil Range Organics (Over C28-C36)	<4.59	U	4.59	0.875	mg/L		03/15/23 13:05	03/16/23 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 135				03/15/23 13:05	03/16/23 14:52	1
o-Terphenyl	111		70 - 135				03/15/23 13:05	03/16/23 14:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1160		5.00	2.00	mg/L			03/25/23 04:19	10

Client Sample ID: WS-4

Lab Sample ID: 890-4287-4

Date Collected: 03/10/23 13:32

Matrix: Water

Date Received: 03/10/23 15:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 17:33	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/15/23 17:33	1
Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L			03/15/23 17:33	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 17:33	1
o-Xylene	<0.00100	U	0.00100	0.000551	mg/L			03/15/23 17:33	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		63 - 144					03/15/23 17:33	1
4-Bromofluorobenzene (Surr)	92		74 - 124					03/15/23 17:33	1
Dibromofluoromethane (Surr)	109		75 - 131					03/15/23 17:33	1
Toluene-d8 (Surr)	96		80 - 117					03/15/23 17:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/16/23 17:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.69	U	4.69	0.926	mg/L			03/20/23 16:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.69	U	4.69	0.926	mg/L		03/15/23 13:05	03/16/23 15:12	1
Diesel Range Organics (Over C10-C28)	<4.69	U	4.69	0.926	mg/L		03/15/23 13:05	03/16/23 15:12	1
Oil Range Organics (Over C28-C36)	<4.69	U	4.69	0.894	mg/L		03/15/23 13:05	03/16/23 15:12	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 890-4287-1
 SDG: KH227027

Client Sample ID: WS-4

Lab Sample ID: 890-4287-4

Date Collected: 03/10/23 13:32

Matrix: Water

Date Received: 03/10/23 15:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 135	03/15/23 13:05	03/16/23 15:12	1
o-Terphenyl	99		70 - 135	03/15/23 13:05	03/16/23 15:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030		5.00	2.00	mg/L			03/25/23 04:44	10

Client Sample ID: WS-5

Lab Sample ID: 890-4287-5

Date Collected: 03/10/23 13:36

Matrix: Water

Date Received: 03/10/23 15:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 17:56	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/15/23 17:56	1
Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L			03/15/23 17:56	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 17:56	1
o-Xylene	<0.00100	U	0.00100	0.000551	mg/L			03/15/23 17:56	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		63 - 144		03/15/23 17:56	1
4-Bromofluorobenzene (Surr)	90		74 - 124		03/15/23 17:56	1
Dibromofluoromethane (Surr)	110		75 - 131		03/15/23 17:56	1
Toluene-d8 (Surr)	96		80 - 117		03/15/23 17:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/16/23 17:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.24	U	4.24	0.837	mg/L			03/20/23 16:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.24	U	4.24	0.837	mg/L		03/15/23 13:05	03/16/23 15:31	1
Diesel Range Organics (Over C10-C28)	<4.24	U	4.24	0.837	mg/L		03/15/23 13:05	03/16/23 15:31	1
Oil Range Organics (Over C28-C36)	<4.24	U	4.24	0.808	mg/L		03/15/23 13:05	03/16/23 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 135	03/15/23 13:05	03/16/23 15:31	1
o-Terphenyl	98		70 - 135	03/15/23 13:05	03/16/23 15:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1060		5.00	2.00	mg/L			03/25/23 05:09	10

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water FacilityJob ID: 890-4287-1
SDG: KH227027

Client Sample ID: WS-6

Lab Sample ID: 890-4287-6

Date Collected: 03/10/23 13:43

Matrix: Water

Date Received: 03/10/23 15:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 18:19	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/15/23 18:19	1
Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L			03/15/23 18:19	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 18:19	1
o-Xylene	<0.00100	U	0.00100	0.000551	mg/L			03/15/23 18:19	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		63 - 144		03/15/23 18:19	1
4-Bromofluorobenzene (Surr)	92		74 - 124		03/15/23 18:19	1
Dibromofluoromethane (Surr)	110		75 - 131		03/15/23 18:19	1
Toluene-d8 (Surr)	92		80 - 117		03/15/23 18:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/16/23 17:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.52	U	4.52	0.893	mg/L			03/20/23 16:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.52	U	4.52	0.893	mg/L		03/15/23 13:05	03/16/23 15:51	1
Diesel Range Organics (Over C10-C28)	<4.52	U	4.52	0.893	mg/L		03/15/23 13:05	03/16/23 15:51	1
Oil Range Organics (Over C28-C36)	<4.52	U	4.52	0.862	mg/L		03/15/23 13:05	03/16/23 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 135	03/15/23 13:05	03/16/23 15:51	1
o-Terphenyl	103		70 - 135	03/15/23 13:05	03/16/23 15:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1050		5.00	2.00	mg/L			03/25/23 05:58	10

Client Sample ID: WS-7

Lab Sample ID: 890-4287-7

Date Collected: 03/10/23 13:49

Matrix: Water

Date Received: 03/10/23 15:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 18:42	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/15/23 18:42	1
Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L			03/15/23 18:42	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 18:42	1
o-Xylene	<0.00100	U	0.00100	0.000551	mg/L			03/15/23 18:42	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		63 - 144		03/15/23 18:42	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water FacilityJob ID: 890-4287-1
SDG: KH227027

Client Sample ID: WS-7

Date Collected: 03/10/23 13:49

Date Received: 03/10/23 15:40

Lab Sample ID: 890-4287-7

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		74 - 124		03/15/23 18:42	1
Dibromofluoromethane (Surr)	111		75 - 131		03/15/23 18:42	1
Toluene-d8 (Surr)	96		80 - 117		03/15/23 18:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/16/23 17:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<3.67	U	3.67	0.725	mg/L			03/20/23 16:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<3.67	U	3.67	0.725	mg/L		03/15/23 13:05	03/16/23 16:11	1
Diesel Range Organics (Over C10-C28)	<3.67	U	3.67	0.725	mg/L		03/15/23 13:05	03/16/23 16:11	1
Oil Range Organics (Over C28-C36)	<3.67	U	3.67	0.699	mg/L		03/15/23 13:05	03/16/23 16:11	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	96		70 - 135	03/15/23 13:05	03/16/23 16:11	1			
o-Terphenyl	97		70 - 135	03/15/23 13:05	03/16/23 16:11	1			

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090		5.00	2.00	mg/L			03/25/23 06:23	10

Client Sample ID: WS-8

Date Collected: 03/10/23 13:57

Date Received: 03/10/23 15:40

Lab Sample ID: 890-4287-8

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 19:05	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/15/23 19:05	1
Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L			03/15/23 19:05	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 19:05	1
o-Xylene	<0.00100	U	0.00100	0.000551	mg/L			03/15/23 19:05	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 19:05	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		03/15/23 19:05	1			
4-Bromofluorobenzene (Surr)	92		74 - 124		03/15/23 19:05	1			
Dibromofluoromethane (Surr)	107		75 - 131		03/15/23 19:05	1			
Toluene-d8 (Surr)	98		80 - 117		03/15/23 19:05	1			

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/16/23 17:52	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water FacilityJob ID: 890-4287-1
SDG: KH227027

Client Sample ID: WS-8

Lab Sample ID: 890-4287-8

Date Collected: 03/10/23 13:57

Matrix: Water

Date Received: 03/10/23 15:40

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.37	U	4.37	0.864	mg/L			03/20/23 16:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.37	U	4.37	0.864	mg/L		03/15/23 13:05	03/16/23 16:50	1
Diesel Range Organics (Over C10-C28)	<4.37	U	4.37	0.864	mg/L		03/15/23 13:05	03/16/23 16:50	1
Oil Range Organics (Over C28-C36)	<4.37	U	4.37	0.834	mg/L		03/15/23 13:05	03/16/23 16:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 135				03/15/23 13:05	03/16/23 16:50	1
o-Terphenyl	96		70 - 135				03/15/23 13:05	03/16/23 16:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		5.00	2.00	mg/L			03/25/23 06:48	10

Client Sample ID: WS-9

Lab Sample ID: 890-4287-9

Date Collected: 03/10/23 14:08

Matrix: Water

Date Received: 03/10/23 15:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 19:28	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/15/23 19:28	1
Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L			03/15/23 19:28	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 19:28	1
o-Xylene	<0.00100	U	0.00100	0.000551	mg/L			03/15/23 19:28	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 19:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 144					03/15/23 19:28	1
4-Bromofluorobenzene (Surr)	93		74 - 124					03/15/23 19:28	1
Dibromofluoromethane (Surr)	108		75 - 131					03/15/23 19:28	1
Toluene-d8 (Surr)	96		80 - 117					03/15/23 19:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/16/23 17:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.35	U	4.35	0.859	mg/L			03/20/23 16:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.35	U	4.35	0.859	mg/L		03/15/23 13:05	03/16/23 17:10	1
Diesel Range Organics (Over C10-C28)	<4.35	U	4.35	0.859	mg/L		03/15/23 13:05	03/16/23 17:10	1
Oil Range Organics (Over C28-C36)	<4.35	U	4.35	0.829	mg/L		03/15/23 13:05	03/16/23 17:10	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water FacilityJob ID: 890-4287-1
SDG: KH227027

Client Sample ID: WS-9

Date Collected: 03/10/23 14:08

Date Received: 03/10/23 15:40

Lab Sample ID: 890-4287-9

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 135	03/15/23 13:05	03/16/23 17:10	1
o-Terphenyl	103		70 - 135	03/15/23 13:05	03/16/23 17:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		5.00	2.00	mg/L			03/27/23 16:30	10

Client Sample ID: WS-10

Date Collected: 03/10/23 14:10

Date Received: 03/10/23 15:40

Lab Sample ID: 890-4287-10

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 19:50	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/15/23 19:50	1
Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L			03/15/23 19:50	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 19:50	1
o-Xylene	<0.00100	U	0.00100	0.000551	mg/L			03/15/23 19:50	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		63 - 144		03/15/23 19:50	1
4-Bromofluorobenzene (Surr)	93		74 - 124		03/15/23 19:50	1
Dibromofluoromethane (Surr)	107		75 - 131		03/15/23 19:50	1
Toluene-d8 (Surr)	97		80 - 117		03/15/23 19:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/16/23 17:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.62	U	4.62	0.912	mg/L			03/20/23 16:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.62	U	4.62	0.912	mg/L		03/17/23 15:30	03/20/23 12:07	1
Diesel Range Organics (Over C10-C28)	<4.62	U	4.62	0.912	mg/L		03/17/23 15:30	03/20/23 12:07	1
Oil Range Organics (Over C28-C36)	<4.62	U	4.62	0.880	mg/L		03/17/23 15:30	03/20/23 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 135	03/17/23 15:30	03/20/23 12:07	1
o-Terphenyl	92		70 - 135	03/17/23 15:30	03/20/23 12:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1510		5.00	2.00	mg/L			03/27/23 16:55	10

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Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 890-4287-1
SDG: KH227027

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-117)
890-4287-1	WS-1	110	93	102	96
890-4287-2	WS-2	107	90	103	97
890-4287-3	WS-3	109	93	104	98
890-4287-4	WS-4	108	92	109	96
890-4287-5	WS-5	108	90	110	96
890-4287-6	WS-6	117	92	110	92
890-4287-7	WS-7	114	92	111	96
890-4287-8	WS-8	107	92	107	98
890-4287-9	WS-9	107	93	108	96
890-4287-10	WS-10	112	93	107	97
LCS 860-94209/3	Lab Control Sample	100	96	110	91
LCSD 860-94209/4	Lab Control Sample Dup	101	98	101	90
MB 860-94209/7	Method Blank	108	94	104	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-135)	OTPH1 (70-135)
890-4287-1	WS-1	100	102
890-4287-2	WS-2	111	115
890-4287-3	WS-3	108	111
890-4287-4	WS-4	95	99
890-4287-5	WS-5	94	98
890-4287-6	WS-6	99	103
890-4287-7	WS-7	96	97
890-4287-8	WS-8	96	96
890-4287-9	WS-9	102	103
890-4287-10	WS-10	100	92
LCS 860-94271/2-A	Lab Control Sample	96	105
LCS 860-94748/2-A	Lab Control Sample	94	97
LCSD 860-94271/3-A	Lab Control Sample Dup	89	95
LCSD 860-94748/3-A	Lab Control Sample Dup	93	93
MB 860-94271/1-A	Method Blank	103	108
MB 860-94748/1-A	Method Blank	86	89

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 890-4287-1
 SDG: KH227027

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-94209/7
 Matrix: Water
 Analysis Batch: 94209

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 11:46	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/15/23 11:46	1
Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L			03/15/23 11:46	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 11:46	1
o-Xylene	<0.00100	U	0.00100	0.000551	mg/L			03/15/23 11:46	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 11:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		63 - 144		03/15/23 11:46	1
4-Bromofluorobenzene (Surr)	94		74 - 124		03/15/23 11:46	1
Dibromofluoromethane (Surr)	104		75 - 131		03/15/23 11:46	1
Toluene-d8 (Surr)	97		80 - 117		03/15/23 11:46	1

Lab Sample ID: LCS 860-94209/3
 Matrix: Water
 Analysis Batch: 94209

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04753		mg/L		95	75 - 125
Toluene	0.0500	0.04367		mg/L		87	70 - 130
Ethylbenzene	0.0500	0.04403		mg/L		88	75 - 125
m,p-Xylenes	0.0500	0.04511		mg/L		90	75 - 125
o-Xylene	0.0500	0.04401		mg/L		88	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	110		75 - 131
Toluene-d8 (Surr)	91		80 - 117

Lab Sample ID: LCSD 860-94209/4
 Matrix: Water
 Analysis Batch: 94209

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04595		mg/L		92	75 - 125	3	25
Toluene	0.0500	0.04103		mg/L		82	70 - 130	6	25
Ethylbenzene	0.0500	0.04258		mg/L		85	75 - 125	3	25
m,p-Xylenes	0.0500	0.04293		mg/L		86	75 - 125	5	25
o-Xylene	0.0500	0.04283		mg/L		86	75 - 125	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
Toluene-d8 (Surr)	90		80 - 117

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 890-4287-1
 SDG: KH227027

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-94271/1-A
 Matrix: Water
 Analysis Batch: 94441

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 94271

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<5.00	U	5.00	0.988	mg/L		03/15/23 13:05	03/16/23 13:53	1
Diesel Range Organics (Over C10-C28)	<5.00	U	5.00	0.988	mg/L		03/15/23 13:05	03/16/23 13:53	1
Oil Range Organics (Over C28-C36)	<5.00	U	5.00	0.954	mg/L		03/15/23 13:05	03/16/23 13:53	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	103		70 - 135	03/15/23 13:05	03/16/23 13:53	1
o-Terphenyl	108		70 - 135	03/15/23 13:05	03/16/23 13:53	1

Lab Sample ID: LCS 860-94271/2-A
 Matrix: Water
 Analysis Batch: 94230

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 94271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	100	113.0		mg/L		113	70 - 135

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	96		70 - 135
o-Terphenyl	105		70 - 135

Lab Sample ID: LCSD 860-94271/3-A
 Matrix: Water
 Analysis Batch: 94230

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 94271

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Diesel Range Organics (Over C10-C28)	100	104.2		mg/L		104	70 - 135	8	35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	89		70 - 135
o-Terphenyl	95		70 - 135

Lab Sample ID: MB 860-94748/1-A
 Matrix: Water
 Analysis Batch: 94655

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 94748

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<5.00	U	5.00	0.988	mg/L		03/17/23 15:30	03/17/23 20:40	1
Diesel Range Organics (Over C10-C28)	<5.00	U	5.00	0.988	mg/L		03/17/23 15:30	03/17/23 20:40	1
Oil Range Organics (Over C28-C36)	<5.00	U	5.00	0.954	mg/L		03/17/23 15:30	03/17/23 20:40	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 890-4287-1
 SDG: KH227027

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 860-94748/1-A
 Matrix: Water
 Analysis Batch: 94655

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 94748

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	86		70 - 135	03/17/23 15:30	03/17/23 20:40	1
o-Terphenyl	89		70 - 135	03/17/23 15:30	03/17/23 20:40	1

Lab Sample ID: LCS 860-94748/2-A
 Matrix: Water
 Analysis Batch: 94655

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 94748

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	99.5	106.4		mg/L		107	70 - 135
Diesel Range Organics (Over C10-C28)	99.6	93.57		mg/L		94	70 - 135

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	94		70 - 135
o-Terphenyl	97		70 - 135

Lab Sample ID: LCSD 860-94748/3-A
 Matrix: Water
 Analysis Batch: 94655

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 94748

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	99.5	108.4		mg/L		109	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	99.6	94.82		mg/L		95	70 - 135	1	35

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	93		70 - 135
o-Terphenyl	93		70 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-95757/3
 Matrix: Water
 Analysis Batch: 95757

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.500	U	0.500	0.200	mg/L			03/24/23 15:00	1

Lab Sample ID: MB 860-95757/50
 Matrix: Water
 Analysis Batch: 95757

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.500	U	0.500	0.200	mg/L			03/25/23 00:49	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 890-4287-1
 SDG: KH227027

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-95757/4
 Matrix: Water
 Analysis Batch: 95757

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.957		mg/L		100	90 - 110

Lab Sample ID: LCS 860-95757/51
 Matrix: Water
 Analysis Batch: 95757

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.784		mg/L		98	90 - 110

Lab Sample ID: LCSD 860-95757/5
 Matrix: Water
 Analysis Batch: 95757

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.09		mg/L		101	90 - 110	1	20

Lab Sample ID: LCSD 860-95757/52
 Matrix: Water
 Analysis Batch: 95757

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.854		mg/L		99	90 - 110	1	20

Lab Sample ID: LLCS 860-95757/7
 Matrix: Water
 Analysis Batch: 95757

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.5421		mg/L		108	50 - 150

Lab Sample ID: MB 860-96004/3
 Matrix: Water
 Analysis Batch: 96004

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.500	U	0.500	0.200	mg/L			03/27/23 14:31	1

Lab Sample ID: LCS 860-96004/4
 Matrix: Water
 Analysis Batch: 96004

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.848		mg/L		98	90 - 110

Lab Sample ID: LCSD 860-96004/5
 Matrix: Water
 Analysis Batch: 96004

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.888		mg/L		99	90 - 110	0	20

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water FacilityJob ID: 890-4287-1
SDG: KH227027

GC/MS VOA

Analysis Batch: 94209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-1	WS-1	Total/NA	Water	8260D	
890-4287-2	WS-2	Total/NA	Water	8260D	
890-4287-3	WS-3	Total/NA	Water	8260D	
890-4287-4	WS-4	Total/NA	Water	8260D	
890-4287-5	WS-5	Total/NA	Water	8260D	
890-4287-6	WS-6	Total/NA	Water	8260D	
890-4287-7	WS-7	Total/NA	Water	8260D	
890-4287-8	WS-8	Total/NA	Water	8260D	
890-4287-9	WS-9	Total/NA	Water	8260D	
890-4287-10	WS-10	Total/NA	Water	8260D	
MB 860-94209/7	Method Blank	Total/NA	Water	8260D	
LCS 860-94209/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-94209/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 94556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-1	WS-1	Total/NA	Water	Total BTEX	
890-4287-2	WS-2	Total/NA	Water	Total BTEX	
890-4287-3	WS-3	Total/NA	Water	Total BTEX	
890-4287-4	WS-4	Total/NA	Water	Total BTEX	
890-4287-5	WS-5	Total/NA	Water	Total BTEX	
890-4287-6	WS-6	Total/NA	Water	Total BTEX	
890-4287-7	WS-7	Total/NA	Water	Total BTEX	
890-4287-8	WS-8	Total/NA	Water	Total BTEX	
890-4287-9	WS-9	Total/NA	Water	Total BTEX	
890-4287-10	WS-10	Total/NA	Water	Total BTEX	

GC Semi VOA

Analysis Batch: 80443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-1	WS-1	Total/NA	Water	8015 NM	
890-4287-2	WS-2	Total/NA	Water	8015 NM	
890-4287-3	WS-3	Total/NA	Water	8015 NM	
890-4287-4	WS-4	Total/NA	Water	8015 NM	
890-4287-5	WS-5	Total/NA	Water	8015 NM	
890-4287-6	WS-6	Total/NA	Water	8015 NM	
890-4287-7	WS-7	Total/NA	Water	8015 NM	
890-4287-8	WS-8	Total/NA	Water	8015 NM	
890-4287-9	WS-9	Total/NA	Water	8015 NM	
890-4287-10	WS-10	Total/NA	Water	8015 NM	

Analysis Batch: 94230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-94271/2-A	Lab Control Sample	Total/NA	Water	8015B NM	94271
LCSD 860-94271/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	94271

Prep Batch: 94271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-1	WS-1	Total/NA	Water	8015NM Aq Prep	
890-4287-2	WS-2	Total/NA	Water	8015NM Aq Prep	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water FacilityJob ID: 890-4287-1
SDG: KH227027

GC Semi VOA (Continued)

Prep Batch: 94271 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-3	WS-3	Total/NA	Water	8015NM Aq Prep	
890-4287-4	WS-4	Total/NA	Water	8015NM Aq Prep	
890-4287-5	WS-5	Total/NA	Water	8015NM Aq Prep	
890-4287-6	WS-6	Total/NA	Water	8015NM Aq Prep	
890-4287-7	WS-7	Total/NA	Water	8015NM Aq Prep	
890-4287-8	WS-8	Total/NA	Water	8015NM Aq Prep	
890-4287-9	WS-9	Total/NA	Water	8015NM Aq Prep	
MB 860-94271/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-94271/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-94271/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 94441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-1	WS-1	Total/NA	Water	8015B NM	94271
890-4287-2	WS-2	Total/NA	Water	8015B NM	94271
890-4287-3	WS-3	Total/NA	Water	8015B NM	94271
890-4287-4	WS-4	Total/NA	Water	8015B NM	94271
890-4287-5	WS-5	Total/NA	Water	8015B NM	94271
890-4287-6	WS-6	Total/NA	Water	8015B NM	94271
890-4287-7	WS-7	Total/NA	Water	8015B NM	94271
890-4287-8	WS-8	Total/NA	Water	8015B NM	94271
890-4287-9	WS-9	Total/NA	Water	8015B NM	94271
MB 860-94271/1-A	Method Blank	Total/NA	Water	8015B NM	94271

Analysis Batch: 94655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-94748/1-A	Method Blank	Total/NA	Water	8015B NM	94748
LCS 860-94748/2-A	Lab Control Sample	Total/NA	Water	8015B NM	94748
LCSD 860-94748/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	94748

Prep Batch: 94748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-10	WS-10	Total/NA	Water	8015NM Aq Prep	
MB 860-94748/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-94748/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-94748/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 94886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-10	WS-10	Total/NA	Water	8015B NM	94748

HPLC/IC

Analysis Batch: 95757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-1 - DL	WS-1	Total/NA	Water	300.0	
890-4287-2 - DL	WS-2	Total/NA	Water	300.0	
890-4287-3 - DL	WS-3	Total/NA	Water	300.0	
890-4287-4 - DL	WS-4	Total/NA	Water	300.0	
890-4287-5 - DL	WS-5	Total/NA	Water	300.0	
890-4287-6 - DL	WS-6	Total/NA	Water	300.0	

Eurofins Carlsbad

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 890-4287-1
 SDG: KH227027

HPLC/IC (Continued)

Analysis Batch: 95757 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-7 - DL	WS-7	Total/NA	Water	300.0	
890-4287-8 - DL	WS-8	Total/NA	Water	300.0	
MB 860-95757/3	Method Blank	Total/NA	Water	300.0	
MB 860-95757/50	Method Blank	Total/NA	Water	300.0	
LCS 860-95757/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-95757/51	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-95757/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-95757/52	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-95757/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 96004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-9 - DL	WS-9	Total/NA	Water	300.0	
890-4287-10 - DL	WS-10	Total/NA	Water	300.0	
MB 860-96004/3	Method Blank	Total/NA	Water	300.0	
LCS 860-96004/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-96004/5	Lab Control Sample Dup	Total/NA	Water	300.0	

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 890-4287-1
 SDG: KH227027

Client Sample ID: WS-1
Date Collected: 03/10/23 13:16
Date Received: 03/10/23 15:40

Lab Sample ID: 890-4287-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	94209	03/15/23 16:23	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			94556	03/16/23 17:52	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			80443	03/20/23 16:53	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32.3 mL	3 mL	94271	03/15/23 13:05	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			94441	03/16/23 14:13	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			95757	03/25/23 03:30	A1S	EET HOU

Client Sample ID: WS-2
Date Collected: 03/10/23 13:22
Date Received: 03/10/23 15:40

Lab Sample ID: 890-4287-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	94209	03/15/23 16:46	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			94556	03/16/23 17:52	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			80443	03/20/23 16:53	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			33 mL	3 mL	94271	03/15/23 13:05	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			94441	03/16/23 14:33	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			95757	03/25/23 03:54	A1S	EET HOU

Client Sample ID: WS-3
Date Collected: 03/10/23 13:27
Date Received: 03/10/23 15:40

Lab Sample ID: 890-4287-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	94209	03/15/23 17:10	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			94556	03/16/23 17:52	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			80443	03/20/23 16:53	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32.7 mL	3 mL	94271	03/15/23 13:05	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			94441	03/16/23 14:52	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			95757	03/25/23 04:19	A1S	EET HOU

Client Sample ID: WS-4
Date Collected: 03/10/23 13:32
Date Received: 03/10/23 15:40

Lab Sample ID: 890-4287-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	94209	03/15/23 17:33	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			94556	03/16/23 17:52	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			80443	03/20/23 16:53	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32 mL	3 mL	94271	03/15/23 13:05	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			94441	03/16/23 15:12	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			95757	03/25/23 04:44	A1S	EET HOU

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 890-4287-1
SDG: KH227027

Client Sample ID: WS-5

Date Collected: 03/10/23 13:36

Date Received: 03/10/23 15:40

Lab Sample ID: 890-4287-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	94209	03/15/23 17:56	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			94556	03/16/23 17:52	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			80443	03/20/23 16:53	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			35.4 mL	3 mL	94271	03/15/23 13:05	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			94441	03/16/23 15:31	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			95757	03/25/23 05:09	A1S	EET HOU

Client Sample ID: WS-6

Date Collected: 03/10/23 13:43

Date Received: 03/10/23 15:40

Lab Sample ID: 890-4287-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	94209	03/15/23 18:19	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			94556	03/16/23 17:52	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			80443	03/20/23 16:53	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			33.2 mL	3 mL	94271	03/15/23 13:05	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			94441	03/16/23 15:51	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			95757	03/25/23 05:58	A1S	EET HOU

Client Sample ID: WS-7

Date Collected: 03/10/23 13:49

Date Received: 03/10/23 15:40

Lab Sample ID: 890-4287-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	94209	03/15/23 18:42	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			94556	03/16/23 17:52	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			80443	03/20/23 16:53	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			40.9 mL	3 mL	94271	03/15/23 13:05	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			94441	03/16/23 16:11	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			95757	03/25/23 06:23	A1S	EET HOU

Client Sample ID: WS-8

Date Collected: 03/10/23 13:57

Date Received: 03/10/23 15:40

Lab Sample ID: 890-4287-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	94209	03/15/23 19:05	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			94556	03/16/23 17:52	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			80443	03/20/23 16:53	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			34.3 mL	3 mL	94271	03/15/23 13:05	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			94441	03/16/23 16:50	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			95757	03/25/23 06:48	A1S	EET HOU

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 890-4287-1
 SDG: KH227027

Client Sample ID: WS-9

Lab Sample ID: 890-4287-9

Date Collected: 03/10/23 14:08

Matrix: Water

Date Received: 03/10/23 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	94209	03/15/23 19:28	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			94556	03/16/23 17:52	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			80443	03/20/23 16:53	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			34.5 mL	3 mL	94271	03/15/23 13:05	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			94441	03/16/23 17:10	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			96004	03/27/23 16:30	RBNS	EET HOU

Client Sample ID: WS-10

Lab Sample ID: 890-4287-10

Date Collected: 03/10/23 14:10

Matrix: Water

Date Received: 03/10/23 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	94209	03/15/23 19:50	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			94556	03/16/23 17:52	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			80443	03/20/23 16:53	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32.5 mL	3 mL	94748	03/17/23 15:30	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			94886	03/20/23 12:07	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			96004	03/27/23 16:55	RBNS	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 890-4287-1
SDG: KH227027

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-04-23
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Louisiana (All)	NELAP	03054	06-30-23
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-23-50	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	P330-22-00025	03-02-23 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 890-4287-1
SDG: KH227027

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
Total BTEX	Total BTEX Calculation	TAL SOP	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Aq Prep	Microextraction	SW846	EET HOU

Protocol References:

- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 890-4287-1
SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4287-1	WS-1	Water	03/10/23 13:16	03/10/23 15:40
890-4287-2	WS-2	Water	03/10/23 13:22	03/10/23 15:40
890-4287-3	WS-3	Water	03/10/23 13:27	03/10/23 15:40
890-4287-4	WS-4	Water	03/10/23 13:32	03/10/23 15:40
890-4287-5	WS-5	Water	03/10/23 13:36	03/10/23 15:40
890-4287-6	WS-6	Water	03/10/23 13:43	03/10/23 15:40
890-4287-7	WS-7	Water	03/10/23 13:49	03/10/23 15:40
890-4287-8	WS-8	Water	03/10/23 13:57	03/10/23 15:40
890-4287-9	WS-9	Water	03/10/23 14:08	03/10/23 15:40
890-4287-10	WS-10	Water	03/10/23 14:10	03/10/23 15:40

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Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

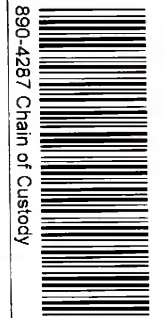
Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Travis Casey	Bill to: (if different)	Company Name:	XXXXXXXXXX
Company Name:	TERRACON	Address:	City, State ZIP:	
Address:	4518 W Pierce St	City, State ZIP:		
City, State ZIP:	Carlsbad, NM	Email:	Travis.Casey@terracon.com	
Phone:	575 6895949			
Project Name:	Mobley Water Facility	Turn Around	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush
Project Number:	KH227023	Due Date:		
Project Location:	Justin Friend	TAT starts the day received by the lab, if received by 4:30pm		
Sampler's Name:	Justin Friend	Wet Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
PO #:		Thermometer ID:	TPM007	
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:	-0.2	
Samples Received Intract:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Temperature Reading:	1.0	
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Corrected Temperature:	0.8	
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Total Containers:				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes	Sample Comments
WS-1	H ₂ O	3-10-13	1:16			7	TPH BTX	None: NO DI Water: H ₂ O Cool: Cool HCl: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₅ : NasO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
WS-2			1:22			7			
WS-3			1:27			7			
WS-4			1:32			7			
WS-5			1:36			7			
WS-6			1:43			7			
WS-7			1:49			7			
WS-8			1:57			7			
WS-9			2:08			7			
WS-10			2:10			7			



Total 2007 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$95.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	3.10.23 1540			

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 86220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

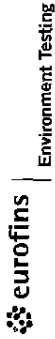


Client Information (Sub Contract Lab)		Lab Piv: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-1175-1					
Client Contact: Shipping/Receiving		E-Mail: Jessica.Kramer@et.eurofins.com	State of Origin: New Mexico	Page: Page 1 of 2					
Company: Eurofins Environment Testing South Cent		Accreditations Required (See note): NELAP Texas	Job #: 890-4287-1	Preservation Codes: M Hexane, N None, O AsNaO2, P Na2OAS, Q Na2SO3, R Na2SO4, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, X EDTA, Y Trizma, Z other (specify)					
Address: 4145 Greenbriar Dr		Due Date Requested: 3/16/2023	Analysis Requested:						
City: Stafford		TAT Requested (days):	Total BTEX						
State Zip: TX, 77477		PO #:	826D/5030C BTEX						
Phone: 281-240-4200(Tel)		WO #:	8916MD_Calio						
Email:		Project #: 88000422	8916MD_NM/8016NM_Aq_Prop Full TPH						
Project Name: Terracon General		SSOW#:	Special Instructions/Note:						
Site:									
Sample Identification	Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=BIOS, AN=Air)	826D/5030C BTEX	8916MD_Calio	8916MD_NM/8016NM_Aq_Prop Full TPH	Method of Shipment
WS-1 (890-4287-1)		3/10/23	13:16 Mountain	Water	Water	X	X	X	
WS-2 (890-4287-2)		3/10/23	13:22 Mountain	Water	Water	X	X	X	
WS-3 (890-4287-3)		3/10/23	13:27 Mountain	Water	Water	X	X	X	
WS-4 (890-4287-4)		3/10/23	13:32 Mountain	Water	Water	X	X	X	
WS-5 (890-4287-5)		3/10/23	13:36 Mountain	Water	Water	X	X	X	
WS-6 (890-4287-6)		3/10/23	13:43 Mountain	Water	Water	X	X	X	
WS-7 (890-4287-7)		3/10/23	13:49 Mountain	Water	Water	X	X	X	
WS-8 (890-4287-8)		3/10/23	13:57 Mountain	Water	Water	X	X	X	
WS-9 (890-4287-9)		3/10/23	14:08 Mountain	Water	Water	X	X	X	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.</p>									
Possible Hazard Identification									
Unconfirmed									
Deliverable Requested: I, II, III, IV Other (specify) Primary Deliverable Rank: 2									
Empty Kit Relinquished by: <i>Clue</i> Date: FedEX									
Relinquished by: <i>Clue</i> Date: FedEX									
Relinquished by: Date: FedEX									
Custody Seals Intact: Custody Seal No. IR ID:HOU-344									
A Yes Δ No Cooler Temperature(s) °C and Other Remarks: C/F -0.2 Z .1									
Corrected Temp: 1.9									
Ver 06/08/2021									



Eurofins Carlsbad
1099 N Canal St
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PW: Kramer, Jessica	Carrier Tracking No(s):	COC No: 890-1175.2
Shipping/Receiving		E-Mail: Jessica.Kramer@eurofins.com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Environment Testing South Cent		Accreditations Required (See note): NELAP Texas	Job #:	890-4287-1
Address: 4145 Greenbriar Dr		Due Date Requested: 3/16/2023	Preservation Codes:	
City: Stafford	State, Zip: TX, 77477	TAT Requested (days):	A HCL M Hexane B NaOH O None C Zn Acetate P Na2CO3 D Nitric Acid Q Na2SO3 E NaHSO4 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other	
Phone: 281-240-4200(Tel)	PO #:	WO #:	Analysis Requested:	
Email:	Project #: 88000422	Project Name: Terracon General	8916MD_Calo 8916MD_NM/8015NM_Aq_Prep_Full_TPH 8280D/6030C BTEX 8916MD_NM/8015NM_Aq_Prep_Full_TPH	
Site:	SSOW#:	Matrix (Viewers, Spills, Overflows, BT-Tissue, Asst)	Special Instructions/Note:	
Sample Identification Client ID (Lab ID)	Sample Date	Sample Type (C-Comp, G-grab)	Sample Time	Local Number (optional)
WS-10 (890-4287-10)	3/10/23	14,10 Mountain	Water	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.</p>				
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2</p> <p>Special Instructions/QC Requirements:</p> <p>Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p>				
Empty Kit Relinquished by:		Method of Shipment:		
Relinquished by: <i>Clue</i>		Date/Time:	Company:	
Relinquished by: FedEX		Date/Time:	Company:	
Relinquished by:		Date/Time:	Company:	
Custody Seals Intact: (Custody Seal No. Δ Yes Δ No)		Temp: IR ID:HOU-344	Temp: C/F -0.22.1	
		Corrected Temp: 19	Ver: 06/08/2021	



Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4287-1

SDG Number: KH227027

Login Number: 4287

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4287-1

SDG Number: KH227027

Login Number: 4287

List Number: 2

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.		

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4287-1

SDG Number: KH227027

Login Number: 4287

List Number: 3

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 03/14/23 08:29 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
 Terracon Consulting Eng & Scientists
 5847 50th St
 Lubbock, Texas 79424

Generated 3/29/2023 3:58:03 PM

JOB DESCRIPTION

Mobley Water Facility
 SDG NUMBER KH227027

JOB NUMBER

890-4386-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220

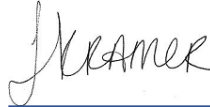


Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
3/29/2023 3:58:03 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

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Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Laboratory Job ID: 890-4386-1
SDG: KH227027

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 890-4386-1
SDG: KH227027

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 890-4386-1
SDG: KH227027

Job ID: 890-4386-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-4386-1**

Receipt

The samples were received on 3/22/2023 2:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C

Receipt Exceptions

The following samples analyzed for method <FRACTION_METHOD> were received and analyzed from an unpreserved bulk soil jar: W-BH-01 3' (890-4386-1), W-BH-02 3' (890-4386-2), W-BH-03 3' (890-4386-3), W-BH-04 5' (890-4386-4), E-BH-01 4' (890-4386-5), E-BH-02 4' (890-4386-6), E-BH-03 5' (890-4386-7), E-BH-04 5' (890-4386-8), E-BH-05 5' (890-4386-9) and E-BH-06 4' (890-4386-10).

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-49688 and analytical batch 880-49839 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. W-BH-01 3' (890-4386-1), W-BH-02 3' (890-4386-2), W-BH-03 3' (890-4386-3), W-BH-04 5' (890-4386-4) and E-BH-01 4' (890-4386-5)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 890-4386-1
 SDG: KH227027

Client Sample ID: W-BH-01 3'

Lab Sample ID: 890-4386-1

Date Collected: 03/21/23 11:42

Matrix: Solid

Date Received: 03/22/23 14:20

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.2		4.96		mg/Kg			03/29/23 03:00	1

Client Sample ID: W-BH-02 3'

Lab Sample ID: 890-4386-2

Date Collected: 03/21/23 13:07

Matrix: Solid

Date Received: 03/22/23 14:20

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	275		4.95		mg/Kg			03/29/23 03:04	1

Client Sample ID: W-BH-03 3'

Lab Sample ID: 890-4386-3

Date Collected: 03/21/23 13:32

Matrix: Solid

Date Received: 03/22/23 14:20

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	209		4.95		mg/Kg			03/29/23 03:09	1

Client Sample ID: W-BH-04 5'

Lab Sample ID: 890-4386-4

Date Collected: 03/21/23 13:50

Matrix: Solid

Date Received: 03/22/23 14:20

Sample Depth: 5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.3		5.02		mg/Kg			03/29/23 03:14	1

Client Sample ID: E-BH-01 4'

Lab Sample ID: 890-4386-5

Date Collected: 03/21/23 14:26

Matrix: Solid

Date Received: 03/22/23 14:20

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1650		101		mg/Kg			03/29/23 03:19	20

Client Sample ID: E-BH-02 4'

Lab Sample ID: 890-4386-6

Date Collected: 03/21/23 14:26

Matrix: Solid

Date Received: 03/22/23 14:20

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1910		101		mg/Kg			03/29/23 03:24	20

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 890-4386-1
 SDG: KH227027

Client Sample ID: E-BH-03 5'

Lab Sample ID: 890-4386-7

Date Collected: 03/21/23 16:38

Matrix: Solid

Date Received: 03/22/23 14:20

Sample Depth: 5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1010		5.00		mg/Kg			03/29/23 03:38	1

Client Sample ID: E-BH-04 5'

Lab Sample ID: 890-4386-8

Date Collected: 03/22/23 10:48

Matrix: Solid

Date Received: 03/22/23 14:20

Sample Depth: 5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	787		4.99		mg/Kg			03/29/23 03:43	1

Client Sample ID: E-BH-05 5'

Lab Sample ID: 890-4386-9

Date Collected: 03/22/23 11:49

Matrix: Solid

Date Received: 03/22/23 14:20

Sample Depth: 5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	372		4.98		mg/Kg			03/29/23 03:58	1

Client Sample ID: E-BH-06 4'

Lab Sample ID: 890-4386-10

Date Collected: 03/22/23 12:25

Matrix: Solid

Date Received: 03/22/23 14:20

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	947		5.00		mg/Kg			03/29/23 04:02	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 890-4386-1
 SDG: KH227027

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49688/1-A
 Matrix: Solid
 Analysis Batch: 49839

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/29/23 02:02	1

Lab Sample ID: LCS 880-49688/2-A
 Matrix: Solid
 Analysis Batch: 49839

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	261.2		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-49688/3-A
 Matrix: Solid
 Analysis Batch: 49839

Client Sample ID: Lab Control Sample Dup
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	262.3		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-4386-6 MS
 Matrix: Solid
 Analysis Batch: 49839

Client Sample ID: E-BH-02 4'
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1910		5030	7178		mg/Kg		105	90 - 110

Lab Sample ID: 890-4386-6 MSD
 Matrix: Solid
 Analysis Batch: 49839

Client Sample ID: E-BH-02 4'
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1910		5030	7172		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 890-4386-1
 SDG: KH227027

HPLC/IC

Leach Batch: 49688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4386-1	W-BH-01 3'	Soluble	Solid	DI Leach	
890-4386-2	W-BH-02 3'	Soluble	Solid	DI Leach	
890-4386-3	W-BH-03 3'	Soluble	Solid	DI Leach	
890-4386-4	W-BH-04 5'	Soluble	Solid	DI Leach	
890-4386-5	E-BH-01 4'	Soluble	Solid	DI Leach	
890-4386-6	E-BH-02 4'	Soluble	Solid	DI Leach	
890-4386-7	E-BH-03 5'	Soluble	Solid	DI Leach	
890-4386-8	E-BH-04 5'	Soluble	Solid	DI Leach	
890-4386-9	E-BH-05 5'	Soluble	Solid	DI Leach	
890-4386-10	E-BH-06 4'	Soluble	Solid	DI Leach	
MB 880-49688/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49688/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49688/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4386-6 MS	E-BH-02 4'	Soluble	Solid	DI Leach	
890-4386-6 MSD	E-BH-02 4'	Soluble	Solid	DI Leach	

Analysis Batch: 49839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4386-1	W-BH-01 3'	Soluble	Solid	300.0	49688
890-4386-2	W-BH-02 3'	Soluble	Solid	300.0	49688
890-4386-3	W-BH-03 3'	Soluble	Solid	300.0	49688
890-4386-4	W-BH-04 5'	Soluble	Solid	300.0	49688
890-4386-5	E-BH-01 4'	Soluble	Solid	300.0	49688
890-4386-6	E-BH-02 4'	Soluble	Solid	300.0	49688
890-4386-7	E-BH-03 5'	Soluble	Solid	300.0	49688
890-4386-8	E-BH-04 5'	Soluble	Solid	300.0	49688
890-4386-9	E-BH-05 5'	Soluble	Solid	300.0	49688
890-4386-10	E-BH-06 4'	Soluble	Solid	300.0	49688
MB 880-49688/1-A	Method Blank	Soluble	Solid	300.0	49688
LCS 880-49688/2-A	Lab Control Sample	Soluble	Solid	300.0	49688
LCSD 880-49688/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49688
890-4386-6 MS	E-BH-02 4'	Soluble	Solid	300.0	49688
890-4386-6 MSD	E-BH-02 4'	Soluble	Solid	300.0	49688

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 890-4386-1
 SDG: KH227027

Client Sample ID: W-BH-01 3'

Lab Sample ID: 890-4386-1

Date Collected: 03/21/23 11:42

Matrix: Solid

Date Received: 03/22/23 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49839	03/29/23 03:00	SMC	EET MID

Client Sample ID: W-BH-02 3'

Lab Sample ID: 890-4386-2

Date Collected: 03/21/23 13:07

Matrix: Solid

Date Received: 03/22/23 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49839	03/29/23 03:04	SMC	EET MID

Client Sample ID: W-BH-03 3'

Lab Sample ID: 890-4386-3

Date Collected: 03/21/23 13:32

Matrix: Solid

Date Received: 03/22/23 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49839	03/29/23 03:09	SMC	EET MID

Client Sample ID: W-BH-04 5'

Lab Sample ID: 890-4386-4

Date Collected: 03/21/23 13:50

Matrix: Solid

Date Received: 03/22/23 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49839	03/29/23 03:14	SMC	EET MID

Client Sample ID: E-BH-01 4'

Lab Sample ID: 890-4386-5

Date Collected: 03/21/23 14:26

Matrix: Solid

Date Received: 03/22/23 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	49839	03/29/23 03:19	SMC	EET MID

Client Sample ID: E-BH-02 4'

Lab Sample ID: 890-4386-6

Date Collected: 03/21/23 14:26

Matrix: Solid

Date Received: 03/22/23 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	49839	03/29/23 03:24	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 890-4386-1
 SDG: KH227027

Client Sample ID: E-BH-03 5'

Lab Sample ID: 890-4386-7

Date Collected: 03/21/23 16:38

Matrix: Solid

Date Received: 03/22/23 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49839	03/29/23 03:38	SMC	EET MID

Client Sample ID: E-BH-04 5'

Lab Sample ID: 890-4386-8

Date Collected: 03/22/23 10:48

Matrix: Solid

Date Received: 03/22/23 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49839	03/29/23 03:43	SMC	EET MID

Client Sample ID: E-BH-05 5'

Lab Sample ID: 890-4386-9

Date Collected: 03/22/23 11:49

Matrix: Solid

Date Received: 03/22/23 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49839	03/29/23 03:58	SMC	EET MID

Client Sample ID: E-BH-06 4'

Lab Sample ID: 890-4386-10

Date Collected: 03/22/23 12:25

Matrix: Solid

Date Received: 03/22/23 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49839	03/29/23 04:02	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 890-4386-1
SDG: KH227027

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 890-4386-1
SDG: KH227027

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 890-4386-1
SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4386-1	W-BH-01 3'	Solid	03/21/23 11:42	03/22/23 14:20	3
890-4386-2	W-BH-02 3'	Solid	03/21/23 13:07	03/22/23 14:20	3
890-4386-3	W-BH-03 3'	Solid	03/21/23 13:32	03/22/23 14:20	3
890-4386-4	W-BH-04 5'	Solid	03/21/23 13:50	03/22/23 14:20	5
890-4386-5	E-BH-01 4'	Solid	03/21/23 14:26	03/22/23 14:20	4
890-4386-6	E-BH-02 4'	Solid	03/21/23 14:26	03/22/23 14:20	4
890-4386-7	E-BH-03 5'	Solid	03/21/23 16:38	03/22/23 14:20	5
890-4386-8	E-BH-04 5'	Solid	03/22/23 10:48	03/22/23 14:20	5
890-4386-9	E-BH-05 5'	Solid	03/22/23 11:49	03/22/23 14:20	5
890-4386-10	E-BH-06 4'	Solid	03/22/23 12:25	03/22/23 14:20	4

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Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Joseph Guesnier	Bill to: (if different)	Robb Kirk
Company Name:	Terracon	Company Name:	Solaris Water Midstream
Address:	4518 W. Pierce Street	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	(806)507-7057	Email:	Gus.Sanchez@terracon.com Casey.Travis@

Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____

Project Name:	Mobley Water Facility	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres Code	
Project Number:	KH227027	Due Date:			
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Gus Sanchez	Wet Ice:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	Parameters	Chloride (EPA Method 4500)
PO #:		Thermometer ID:	11-002		
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	Correction Factor:	3.4		
Samples Received In tact:	Cooler Custody Seals: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:	3.4		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Corrected Temperature:	3.0		
Total Containers:					



Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Sample Comments
W-BH-01	Soil	3-21-23	11:42 am	3	Grab	1	✓
W-BH-02	Soil	3-21-23	1:07 pm	3	Grab	1	✓
W-BH-03	Soil	3-21-23	1:32 pm	3	Grab	1	✓
W-BH-04	Soil	3-21-23	1:50 pm	5	Grab	1	✓
E-BH-01	Soil	3-21-23	2:26 pm	4	Grab	1	✓
E-BH-02	Soil	3-21-23	2:26 pm	4	Grab	1	✓
E-BH-03	Soil	3-21-23	4:28 pm	5	Grab	1	✓

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	3-22-23 14:41			

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4386-1

SDG Number: KH227027

Login Number: 4386

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4386-1

SDG Number: KH227027

Login Number: 4386

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 03/24/23 11:08 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
 Terracon Consulting Eng & Scientists
 5847 50th St
 Lubbock, Texas 79424
 Generated 4/25/2023 10:08:55 AM

JOB DESCRIPTION

Mabley
 SDG NUMBER KH227027

JOB NUMBER

890-4517-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
4/25/2023 10:08:55 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

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Eurofins Carlsbad

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists
Project/Site: Mabley

Laboratory Job ID: 890-4517-1
SDG: KH227027

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mabley

Job ID: 890-4517-1
SDG: KH227027

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Mabley

Job ID: 890-4517-1
SDG: KH227027

Job ID: 890-4517-1

Laboratory: Eurofins Carlsbad**Narrative****Job Narrative
890-4517-1****Receipt**

The samples were received on 4/14/2023 12:13 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS-05 (890-4517-1), FS-06 (890-4517-2), FS-07 (890-4517-3), FS-08 (890-4517-4), FS-09 (890-4517-5), FS-10 (890-4517-6), FS-11 (890-4517-7), FS-12 (890-4517-8), FS-13 (890-4517-9), FS-14 (890-4517-10), FS-15 (890-4517-11), N-SW-2 (890-4517-12), E-SW-2 (890-4517-13), E-SW-4 (890-4517-14), W-SW-2 (890-4517-15), W-SW-3 (890-4517-16), W-SW-4 (890-4517-17), W-SW-5 (890-4517-18), W-SW-6 (890-4517-19) and S-SW-1 (890-4517-20).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-51326 and analytical batch 880-51274 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-51274 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-51274 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS-05 (890-4517-1), FS-06 (890-4517-2), FS-09 (890-4517-5), FS-10 (890-4517-6), FS-11 (890-4517-7), FS-12 (890-4517-8), FS-13 (890-4517-9), FS-14 (890-4517-10), FS-15 (890-4517-11) and N-SW-2 (890-4517-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-51326/1-A) and (LCSD 880-51326/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4517-A-1-G MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS-08 (890-4517-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: E-SW-2 (890-4517-13), E-SW-4 (890-4517-14), W-SW-2 (890-4517-15), W-SW-3 (890-4517-16), W-SW-4 (890-4517-17), W-SW-5 (890-4517-18), W-SW-6 (890-4517-19) and S-SW-1 (890-4517-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS-07 (890-4517-3) and FS-09 (890-4517-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-51267 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-51267/20).

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Mabley

Job ID: 890-4517-1
SDG: KH227027

Job ID: 890-4517-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike (MS) recoveries for preparation batch 880-51309 and analytical batch 880-51811 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: FS-05 (890-4517-1), FS-06 (890-4517-2), FS-07 (890-4517-3), FS-08 (890-4517-4), FS-09 (890-4517-5), FS-10 (890-4517-6), FS-11 (890-4517-7), FS-12 (890-4517-8), FS-13 (890-4517-9), FS-14 (890-4517-10) and (890-4517-A-1-F MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: FS-05

Lab Sample ID: 890-4517-1

Date Collected: 04/14/23 10:00

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1	0.00199		mg/Kg		04/17/23 13:54	04/18/23 02:08	1
Toluene	<0.00199	U F2 F1	0.00199		mg/Kg		04/17/23 13:54	04/18/23 02:08	1
Ethylbenzene	<0.00199	U F2 F1	0.00199		mg/Kg		04/17/23 13:54	04/18/23 02:08	1
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.00398		mg/Kg		04/17/23 13:54	04/18/23 02:08	1
o-Xylene	<0.00199	U F2 F1	0.00199		mg/Kg		04/17/23 13:54	04/18/23 02:08	1
Xylenes, Total	<0.00398	U F2 F1	0.00398		mg/Kg		04/17/23 13:54	04/18/23 02:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	04/17/23 13:54	04/18/23 02:08	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	04/17/23 13:54	04/18/23 02:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.8		50.0		mg/Kg			04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 13:22	1
Diesel Range Organics (Over C10-C28)	58.8		50.0		mg/Kg		04/17/23 09:27	04/17/23 13:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	04/17/23 09:27	04/17/23 13:22	1
o-Terphenyl	95		70 - 130	04/17/23 09:27	04/17/23 13:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1470	F1	25.1		mg/Kg			04/24/23 18:49	5

Client Sample ID: FS-06

Lab Sample ID: 890-4517-2

Date Collected: 04/14/23 10:02

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 02:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 02:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 02:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 02:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 02:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 02:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130	04/17/23 13:54	04/18/23 02:34	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: FS-06

Lab Sample ID: 890-4517-2

Date Collected: 04/14/23 10:02

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	73		70 - 130	04/17/23 13:54	04/18/23 02:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 14:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 14:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	04/17/23 09:27	04/17/23 14:28	1
o-Terphenyl	103		70 - 130	04/17/23 09:27	04/17/23 14:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9630		100		mg/Kg			04/24/23 19:03	20

Client Sample ID: FS-07

Lab Sample ID: 890-4517-3

Date Collected: 04/14/23 10:04

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 03:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 03:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 03:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/17/23 13:54	04/18/23 03:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 03:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/17/23 13:54	04/18/23 03:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	04/17/23 13:54	04/18/23 03:00	1
1,4-Difluorobenzene (Surr)	70		70 - 130	04/17/23 13:54	04/18/23 03:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/18/23 11:09	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: FS-07

Lab Sample ID: 890-4517-3

Date Collected: 04/14/23 10:04

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 14:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 14:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 14:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				04/17/23 09:27	04/17/23 14:50	1
o-Terphenyl	79		70 - 130				04/17/23 09:27	04/17/23 14:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8740		99.6		mg/Kg			04/24/23 19:07	20

Client Sample ID: FS-08

Lab Sample ID: 890-4517-4

Date Collected: 04/14/23 10:06

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 03:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 03:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 03:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/17/23 13:54	04/18/23 03:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 03:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/17/23 13:54	04/18/23 03:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				04/17/23 13:54	04/18/23 03:27	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130				04/17/23 13:54	04/18/23 03:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 15:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 15:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				04/17/23 09:27	04/17/23 15:12	1
o-Terphenyl	87		70 - 130				04/17/23 09:27	04/17/23 15:12	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: FS-08

Lab Sample ID: 890-4517-4

Date Collected: 04/14/23 10:06
 Date Received: 04/14/23 12:13
 Sample Depth: 5

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3000		25.2		mg/Kg			04/24/23 19:12	5

Client Sample ID: FS-09

Lab Sample ID: 890-4517-5

Date Collected: 04/14/23 10:08
 Date Received: 04/14/23 12:13
 Sample Depth: 5

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:54	04/18/23 03:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:54	04/18/23 03:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:54	04/18/23 03:53	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/17/23 13:54	04/18/23 03:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:54	04/18/23 03:53	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/17/23 13:54	04/18/23 03:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130				04/17/23 13:54	04/18/23 03:53	1
1,4-Difluorobenzene (Surr)	81		70 - 130				04/17/23 13:54	04/18/23 03:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 15:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 15:34	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 15:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	52	S1-	70 - 130				04/17/23 09:27	04/17/23 15:34	1
o-Terphenyl	62	S1-	70 - 130				04/17/23 09:27	04/17/23 15:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2690		25.2		mg/Kg			04/24/23 19:16	5

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: FS-10

Lab Sample ID: 890-4517-6

Date Collected: 04/14/23 10:10

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 04:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 04:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 04:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 04:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 04:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 04:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				04/17/23 13:54	04/18/23 04:20	1
1,4-Difluorobenzene (Surr)	78		70 - 130				04/17/23 13:54	04/18/23 04:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 15:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 15:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				04/17/23 09:27	04/17/23 15:56	1
o-Terphenyl	93		70 - 130				04/17/23 09:27	04/17/23 15:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1750		25.0		mg/Kg			04/24/23 19:30	5

Client Sample ID: FS-11

Lab Sample ID: 890-4517-7

Date Collected: 04/14/23 10:12

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 04:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 04:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 04:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 04:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 04:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 04:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130				04/17/23 13:54	04/18/23 04:46	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: FS-11

Lab Sample ID: 890-4517-7

Date Collected: 04/14/23 10:12

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	75		70 - 130	04/17/23 13:54	04/18/23 04:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 16:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 16:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	04/17/23 09:27	04/17/23 16:18	1
o-Terphenyl	81		70 - 130	04/17/23 09:27	04/17/23 16:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	493		4.97		mg/Kg			04/24/23 19:35	1

Client Sample ID: FS-12

Lab Sample ID: 890-4517-8

Date Collected: 04/14/23 10:14

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 05:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 05:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 05:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/17/23 13:54	04/18/23 05:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 05:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/17/23 13:54	04/18/23 05:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130	04/17/23 13:54	04/18/23 05:13	1
1,4-Difluorobenzene (Surr)	75		70 - 130	04/17/23 13:54	04/18/23 05:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/18/23 11:09	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: FS-12

Lab Sample ID: 890-4517-8

Date Collected: 04/14/23 10:14

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 16:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 16:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				04/17/23 09:27	04/17/23 16:40	1
o-Terphenyl	94		70 - 130				04/17/23 09:27	04/17/23 16:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	440		4.98		mg/Kg			04/24/23 19:39	1

Client Sample ID: FS-13

Lab Sample ID: 890-4517-9

Date Collected: 04/14/23 10:16

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 05:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 05:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 05:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 05:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 05:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 05:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130				04/17/23 13:54	04/18/23 05:39	1
1,4-Difluorobenzene (Surr)	78		70 - 130				04/17/23 13:54	04/18/23 05:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 17:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 17:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				04/17/23 09:27	04/17/23 17:01	1
o-Terphenyl	100		70 - 130				04/17/23 09:27	04/17/23 17:01	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: FS-13

Lab Sample ID: 890-4517-9

Date Collected: 04/14/23 10:16
 Date Received: 04/14/23 12:13
 Sample Depth: 5

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	544		5.01		mg/Kg			04/24/23 19:44	1

Client Sample ID: FS-14

Lab Sample ID: 890-4517-10

Date Collected: 04/14/23 10:18
 Date Received: 04/14/23 12:13
 Sample Depth: 5

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 06:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 06:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 06:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 06:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 06:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 06:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	169	S1+	70 - 130				04/17/23 13:54	04/18/23 06:06	1
1,4-Difluorobenzene (Surr)	80		70 - 130				04/17/23 13:54	04/18/23 06:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 17:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 17:22	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				04/17/23 09:27	04/17/23 17:22	1
o-Terphenyl	124		70 - 130				04/17/23 09:27	04/17/23 17:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	718		4.99		mg/Kg			04/24/23 19:48	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: FS-15

Lab Sample ID: 890-4517-11

Date Collected: 04/14/23 10:20

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 07:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 07:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 07:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/17/23 13:54	04/18/23 07:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 07:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/17/23 13:54	04/18/23 07:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	04/17/23 13:54	04/18/23 07:55	1
1,4-Difluorobenzene (Surr)	75		70 - 130	04/17/23 13:54	04/18/23 07:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 18:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 18:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	04/17/23 09:27	04/17/23 18:32	1
o-Terphenyl	121		70 - 130	04/17/23 09:27	04/17/23 18:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		25.2		mg/Kg			04/24/23 19:53	5

Client Sample ID: N-SW-2

Lab Sample ID: 890-4517-12

Date Collected: 04/14/23 10:22

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 08:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 08:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 08:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/17/23 13:54	04/18/23 08:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 08:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/17/23 13:54	04/18/23 08:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	04/17/23 13:54	04/18/23 08:23	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: N-SW-2

Lab Sample ID: 890-4517-12

Date Collected: 04/14/23 10:22

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	71		70 - 130	04/17/23 13:54	04/18/23 08:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	209		49.9		mg/Kg			04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 18:53	1
Diesel Range Organics (Over C10-C28)	124		49.9		mg/Kg		04/17/23 09:27	04/17/23 18:53	1
Oil Range Organics (Over C28-C36)	84.5		49.9		mg/Kg		04/17/23 09:27	04/17/23 18:53	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	91		70 - 130	04/17/23 09:27	04/17/23 18:53	1			
o-Terphenyl	100		70 - 130	04/17/23 09:27	04/17/23 18:53	1			

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	453		5.05		mg/Kg			04/24/23 20:07	1

Client Sample ID: E-SW-2

Lab Sample ID: 890-4517-13

Date Collected: 04/14/23 10:24

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 08:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 08:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 08:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/17/23 13:54	04/18/23 08:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 08:58	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/17/23 13:54	04/18/23 08:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130	04/17/23 13:54	04/18/23 08:58	1
1,4-Difluorobenzene (Surr)	75		70 - 130	04/17/23 13:54	04/18/23 08:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/18/23 12:52	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: E-SW-2

Lab Sample ID: 890-4517-13

Date Collected: 04/14/23 10:24

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 19:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 19:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 19:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				04/17/23 09:27	04/17/23 19:15	1
o-Terphenyl	122		70 - 130				04/17/23 09:27	04/17/23 19:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30500		251		mg/Kg			04/24/23 20:11	50

Client Sample ID: E-SW-4

Lab Sample ID: 890-4517-14

Date Collected: 04/14/23 10:26

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 09:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 09:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 09:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 09:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 09:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 09:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130				04/17/23 13:54	04/18/23 09:24	1
1,4-Difluorobenzene (Surr)	74		70 - 130				04/17/23 13:54	04/18/23 09:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 19:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 19:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 19:36	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: E-SW-4

Lab Sample ID: 890-4517-14

Date Collected: 04/14/23 10:26

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	04/17/23 09:27	04/17/23 19:36	1
o-Terphenyl	94		70 - 130	04/17/23 09:27	04/17/23 19:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.9		4.98		mg/Kg			04/24/23 20:25	1

Client Sample ID: W-SW-2

Lab Sample ID: 890-4517-15

Date Collected: 04/14/23 10:28

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 09:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 09:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 09:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 09:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 09:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 09:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	04/17/23 13:54	04/18/23 09:50	1
1,4-Difluorobenzene (Surr)	73		70 - 130	04/17/23 13:54	04/18/23 09:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 19:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 19:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	04/17/23 09:27	04/17/23 19:58	1
o-Terphenyl	112		70 - 130	04/17/23 09:27	04/17/23 19:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	832		4.97		mg/Kg			04/24/23 20:29	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: W-SW-3

Lab Sample ID: 890-4517-16

Date Collected: 04/14/23 10:30

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 10:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 10:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 10:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/17/23 13:54	04/18/23 10:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 10:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/17/23 13:54	04/18/23 10:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130				04/17/23 13:54	04/18/23 10:17	1
1,4-Difluorobenzene (Surr)	74		70 - 130				04/17/23 13:54	04/18/23 10:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 20:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 20:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 20:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				04/17/23 09:27	04/17/23 20:20	1
o-Terphenyl	107		70 - 130				04/17/23 09:27	04/17/23 20:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150		4.99		mg/Kg			04/24/23 20:34	1

Client Sample ID: W-SW-4

Lab Sample ID: 890-4517-17

Date Collected: 04/14/23 10:32

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 10:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 10:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 10:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/17/23 13:54	04/18/23 10:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 10:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/17/23 13:54	04/18/23 10:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130				04/17/23 13:54	04/18/23 10:43	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: W-SW-4

Lab Sample ID: 890-4517-17

Date Collected: 04/14/23 10:32

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	04/17/23 13:54	04/18/23 10:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 20:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 20:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	04/17/23 09:27	04/17/23 20:41	1
o-Terphenyl	107		70 - 130	04/17/23 09:27	04/17/23 20:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5450		25.3		mg/Kg			04/24/23 20:38	5

Client Sample ID: W-SW-5

Lab Sample ID: 890-4517-18

Date Collected: 04/14/23 10:34

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:54	04/18/23 11:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:54	04/18/23 11:09	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:54	04/18/23 11:09	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/17/23 13:54	04/18/23 11:09	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:54	04/18/23 11:09	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/17/23 13:54	04/18/23 11:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	169	S1+	70 - 130	04/17/23 13:54	04/18/23 11:09	1
1,4-Difluorobenzene (Surr)	78		70 - 130	04/17/23 13:54	04/18/23 11:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/18/23 11:09	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: W-SW-5

Lab Sample ID: 890-4517-18

Date Collected: 04/14/23 10:34

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 21:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 21:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 21:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/17/23 09:27	04/17/23 21:03	1
o-Terphenyl	102		70 - 130				04/17/23 09:27	04/17/23 21:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2370		25.1		mg/Kg			04/24/23 20:43	5

Client Sample ID: W-SW-6

Lab Sample ID: 890-4517-19

Date Collected: 04/14/23 10:36

Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 11:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 11:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 11:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 11:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 11:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 11:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130				04/17/23 13:54	04/18/23 11:35	1
1,4-Difluorobenzene (Surr)	74		70 - 130				04/17/23 13:54	04/18/23 11:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 21:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 21:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 21:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				04/17/23 09:27	04/17/23 21:24	1
o-Terphenyl	98		70 - 130				04/17/23 09:27	04/17/23 21:24	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: W-SW-6

Lab Sample ID: 890-4517-19

Date Collected: 04/14/23 10:36
 Date Received: 04/14/23 12:13
 Sample Depth: 0 - 5

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2350		24.8		mg/Kg			04/24/23 20:48	5

Client Sample ID: S-SW-1

Lab Sample ID: 890-4517-20

Date Collected: 04/14/23 10:38
 Date Received: 04/14/23 12:13
 Sample Depth: 0 - 5

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/17/23 13:54	04/18/23 12:01	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/17/23 13:54	04/18/23 12:01	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/17/23 13:54	04/18/23 12:01	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/17/23 13:54	04/18/23 12:01	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/17/23 13:54	04/18/23 12:01	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/17/23 13:54	04/18/23 12:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130				04/17/23 13:54	04/18/23 12:01	1
1,4-Difluorobenzene (Surr)	81		70 - 130				04/17/23 13:54	04/18/23 12:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 21:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 21:45	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 21:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				04/17/23 09:27	04/17/23 21:45	1
o-Terphenyl	101		70 - 130				04/17/23 09:27	04/17/23 21:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1630		24.9		mg/Kg			04/24/23 20:52	5

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-4517-1	FS-05	134 S1+	69 S1-
890-4517-1 MS	FS-05	138 S1+	76
890-4517-1 MSD	FS-05	127	70
890-4517-2	FS-06	146 S1+	73
890-4517-3	FS-07	126	70
890-4517-4	FS-08	118	64 S1-
890-4517-5	FS-09	141 S1+	81
890-4517-6	FS-10	142 S1+	78
890-4517-7	FS-11	147 S1+	75
890-4517-8	FS-12	155 S1+	75
890-4517-9	FS-13	164 S1+	78
890-4517-10	FS-14	169 S1+	80
890-4517-11	FS-15	140 S1+	75
890-4517-12	N-SW-2	137 S1+	71
890-4517-13	E-SW-2	154 S1+	75
890-4517-14	E-SW-4	152 S1+	74
890-4517-15	W-SW-2	133 S1+	73
890-4517-16	W-SW-3	155 S1+	74
890-4517-17	W-SW-4	152 S1+	91
890-4517-18	W-SW-5	169 S1+	78
890-4517-19	W-SW-6	168 S1+	74
890-4517-20	S-SW-1	151 S1+	81
LCS 880-51326/1-A	Lab Control Sample	144 S1+	79
LCSD 880-51326/2-A	Lab Control Sample Dup	158 S1+	85
MB 880-51078/5-A	Method Blank	82	77
MB 880-51326/5-A	Method Blank	84	73

Surrogate Legend
 BFB = 4-Bromofluorobenzene (Surr)
 DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-4517-1	FS-05	94	95
890-4517-1 MS	FS-05	106	98
890-4517-1 MSD	FS-05	99	97
890-4517-2	FS-06	105	103
890-4517-3	FS-07	68 S1-	79
890-4517-4	FS-08	79	87
890-4517-5	FS-09	52 S1-	62 S1-
890-4517-6	FS-10	83	93
890-4517-7	FS-11	71	81
890-4517-8	FS-12	86	94
890-4517-9	FS-13	88	100
890-4517-10	FS-14	108	124
890-4517-11	FS-15	112	121

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Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-4517-12	N-SW-2	91	100
890-4517-13	E-SW-2	109	122
890-4517-14	E-SW-4	84	94
890-4517-15	W-SW-2	102	112
890-4517-16	W-SW-3	98	107
890-4517-17	W-SW-4	97	107
890-4517-18	W-SW-5	94	102
890-4517-19	W-SW-6	91	98
890-4517-20	S-SW-1	92	101
LCS 880-51298/2-A	Lab Control Sample	87	106
LCSD 880-51298/3-A	Lab Control Sample Dup	95	109
MB 880-51298/1-A	Method Blank	83	107

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-51078/5-A
 Matrix: Solid
 Analysis Batch: 51274

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 51078

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		04/13/23 12:55	04/17/23 11:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/13/23 12:55	04/17/23 11:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/13/23 12:55	04/17/23 11:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/13/23 12:55	04/17/23 11:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/13/23 12:55	04/17/23 11:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/13/23 12:55	04/17/23 11:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				04/13/23 12:55	04/17/23 11:36	1
1,4-Difluorobenzene (Surr)	77		70 - 130				04/13/23 12:55	04/17/23 11:36	1

Lab Sample ID: MB 880-51326/5-A
 Matrix: Solid
 Analysis Batch: 51274

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 51326

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 01:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 01:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 01:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/17/23 13:54	04/18/23 01:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 01:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/17/23 13:54	04/18/23 01:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				04/17/23 13:54	04/18/23 01:42	1
1,4-Difluorobenzene (Surr)	73		70 - 130				04/17/23 13:54	04/18/23 01:42	1

Lab Sample ID: LCS 880-51326/1-A
 Matrix: Solid
 Analysis Batch: 51274

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 51326

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.09084		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09329		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1856		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09575		mg/Kg		96	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130				
1,4-Difluorobenzene (Surr)	79		70 - 130				

Lab Sample ID: LCSD 880-51326/2-A
 Matrix: Solid
 Analysis Batch: 51274

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 51326

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.1052		mg/Kg		105	70 - 130	9	35

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-51326/2-A
 Matrix: Solid
 Analysis Batch: 51274

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 51326

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD Limit	
							Limits	RPD		
Toluene	0.100	0.09873		mg/Kg		99	70 - 130	8	35	
Ethylbenzene	0.100	0.1027		mg/Kg		103	70 - 130	10	35	
m-Xylene & p-Xylene	0.200	0.2061		mg/Kg		103	70 - 130	10	35	
o-Xylene	0.100	0.1055		mg/Kg		105	70 - 130	10	35	
		LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130							
1,4-Difluorobenzene (Surr)	85		70 - 130							

Lab Sample ID: 890-4517-1 MS
 Matrix: Solid
 Analysis Batch: 51274

Client Sample ID: FS-05
 Prep Type: Total/NA
 Prep Batch: 51326

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Benzene	<0.00199	U F2 F1	0.100	0.08410		mg/Kg		84	70 - 130	
Toluene	<0.00199	U F2 F1	0.100	0.08132		mg/Kg		81	70 - 130	
Ethylbenzene	<0.00199	U F2 F1	0.100	0.08878		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.1769		mg/Kg		88	70 - 130	
o-Xylene	<0.00199	U F2 F1	0.100	0.09005		mg/Kg		90	70 - 130	
		MS	MS							
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130							
1,4-Difluorobenzene (Surr)	76		70 - 130							

Lab Sample ID: 890-4517-1 MSD
 Matrix: Solid
 Analysis Batch: 51274

Client Sample ID: FS-05
 Prep Type: Total/NA
 Prep Batch: 51326

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD Limit
									Limits	RPD	
Benzene	<0.00199	U F2 F1	0.0990	0.04561	F2 F1	mg/Kg		46	70 - 130	59	35
Toluene	<0.00199	U F2 F1	0.0990	0.04808	F2 F1	mg/Kg		49	70 - 130	51	35
Ethylbenzene	<0.00199	U F2 F1	0.0990	0.04706	F2 F1	mg/Kg		48	70 - 130	61	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.198	0.01001	F2 F1	mg/Kg		5	70 - 130	179	35
o-Xylene	<0.00199	U F2 F1	0.0990	0.05523	F2 F1	mg/Kg		56	70 - 130	48	35
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	127		70 - 130								
1,4-Difluorobenzene (Surr)	70		70 - 130								

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-51298/1-A
 Matrix: Solid
 Analysis Batch: 51267

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 51298

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 09:56	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-51298/1-A
Matrix: Solid
Analysis Batch: 51267

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 51298

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 09:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 09:56	1
Surrogate	MB MB		Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	83		70 - 130				04/17/23 09:27	04/17/23 09:56	1
o-Terphenyl	107		70 - 130				04/17/23 09:27	04/17/23 09:56	1

Lab Sample ID: LCS 880-51298/2-A
Matrix: Solid
Analysis Batch: 51267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	795.8		mg/Kg		80	70 - 130
Surrogate	LCS LCS		Limits				%Rec
	%Recovery	Qualifier					
1-Chlorooctane	87		70 - 130				
o-Terphenyl	106		70 - 130				

Lab Sample ID: LCSD 880-51298/3-A
Matrix: Solid
Analysis Batch: 51267

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 51298

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	895.7		mg/Kg		90	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	875.8		mg/Kg		88	70 - 130	10	20
Surrogate	LCSD LCSD		Limits			%Rec	%Rec	RPD	Limit
	%Recovery	Qualifier							
1-Chlorooctane	95		70 - 130						
o-Terphenyl	109		70 - 130						

Lab Sample ID: 890-4517-1 MS
Matrix: Solid
Analysis Batch: 51267

Client Sample ID: FS-05
Prep Type: Total/NA
Prep Batch: 51298

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	58.8		998	1083		mg/Kg		103	70 - 130
Surrogate	MS MS		Limits					%Rec	%Rec
	%Recovery	Qualifier							
1-Chlorooctane	106		70 - 130						
o-Terphenyl	98		70 - 130						

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-4517-1 MSD
 Matrix: Solid
 Analysis Batch: 51267

Client Sample ID: FS-05
 Prep Type: Total/NA
 Prep Batch: 51298

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	914.6		mg/Kg		90	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	58.8		999	1028		mg/Kg		97	70 - 130	5	20
Surrogate	%Recovery	MSD Qualifier									Limits
1-Chlorooctane	99										70 - 130
o-Terphenyl	97										70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-51309/1-A
 Matrix: Solid
 Analysis Batch: 51811

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/24/23 18:35	1

Lab Sample ID: LCS 880-51309/2-A
 Matrix: Solid
 Analysis Batch: 51811

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.3		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-51309/3-A
 Matrix: Solid
 Analysis Batch: 51811

Client Sample ID: Lab Control Sample Dup
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	246.2		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 890-4517-1 MS
 Matrix: Solid
 Analysis Batch: 51811

Client Sample ID: FS-05
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1470	F1	1260	2823		mg/Kg		108	90 - 110

Lab Sample ID: 890-4517-1 MSD
 Matrix: Solid
 Analysis Batch: 51811

Client Sample ID: FS-05
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1470	F1	1260	2869	F1	mg/Kg		111	90 - 110	2	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Mabley

Job ID: 890-4517-1
SDG: KH227027

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4517-11 MS
Matrix: Solid
Analysis Batch: 51811

Client Sample ID: FS-15
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1240		1260	2554		mg/Kg		104	90 - 110

Lab Sample ID: 890-4517-11 MSD
Matrix: Solid
Analysis Batch: 51811

Client Sample ID: FS-15
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1240		1260	2542		mg/Kg		103	90 - 110	0	20

- 1
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- 11
- 12
- 13
- 14

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

GC VOA

Prep Batch: 51078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-51078/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 51274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-1	FS-05	Total/NA	Solid	8021B	51326
890-4517-2	FS-06	Total/NA	Solid	8021B	51326
890-4517-3	FS-07	Total/NA	Solid	8021B	51326
890-4517-4	FS-08	Total/NA	Solid	8021B	51326
890-4517-5	FS-09	Total/NA	Solid	8021B	51326
890-4517-6	FS-10	Total/NA	Solid	8021B	51326
890-4517-7	FS-11	Total/NA	Solid	8021B	51326
890-4517-8	FS-12	Total/NA	Solid	8021B	51326
890-4517-9	FS-13	Total/NA	Solid	8021B	51326
890-4517-10	FS-14	Total/NA	Solid	8021B	51326
890-4517-11	FS-15	Total/NA	Solid	8021B	51326
890-4517-12	N-SW-2	Total/NA	Solid	8021B	51326
890-4517-13	E-SW-2	Total/NA	Solid	8021B	51326
890-4517-14	E-SW-4	Total/NA	Solid	8021B	51326
890-4517-15	W-SW-2	Total/NA	Solid	8021B	51326
890-4517-16	W-SW-3	Total/NA	Solid	8021B	51326
890-4517-17	W-SW-4	Total/NA	Solid	8021B	51326
890-4517-18	W-SW-5	Total/NA	Solid	8021B	51326
890-4517-19	W-SW-6	Total/NA	Solid	8021B	51326
890-4517-20	S-SW-1	Total/NA	Solid	8021B	51326
MB 880-51078/5-A	Method Blank	Total/NA	Solid	8021B	51078
MB 880-51326/5-A	Method Blank	Total/NA	Solid	8021B	51326
LCS 880-51326/1-A	Lab Control Sample	Total/NA	Solid	8021B	51326
LCSD 880-51326/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51326
890-4517-1 MS	FS-05	Total/NA	Solid	8021B	51326
890-4517-1 MSD	FS-05	Total/NA	Solid	8021B	51326

Prep Batch: 51326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-1	FS-05	Total/NA	Solid	5035	
890-4517-2	FS-06	Total/NA	Solid	5035	
890-4517-3	FS-07	Total/NA	Solid	5035	
890-4517-4	FS-08	Total/NA	Solid	5035	
890-4517-5	FS-09	Total/NA	Solid	5035	
890-4517-6	FS-10	Total/NA	Solid	5035	
890-4517-7	FS-11	Total/NA	Solid	5035	
890-4517-8	FS-12	Total/NA	Solid	5035	
890-4517-9	FS-13	Total/NA	Solid	5035	
890-4517-10	FS-14	Total/NA	Solid	5035	
890-4517-11	FS-15	Total/NA	Solid	5035	
890-4517-12	N-SW-2	Total/NA	Solid	5035	
890-4517-13	E-SW-2	Total/NA	Solid	5035	
890-4517-14	E-SW-4	Total/NA	Solid	5035	
890-4517-15	W-SW-2	Total/NA	Solid	5035	
890-4517-16	W-SW-3	Total/NA	Solid	5035	
890-4517-17	W-SW-4	Total/NA	Solid	5035	
890-4517-18	W-SW-5	Total/NA	Solid	5035	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mabley

Job ID: 890-4517-1
SDG: KH227027

GC VOA (Continued)

Prep Batch: 51326 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-19	W-SW-6	Total/NA	Solid	5035	
890-4517-20	S-SW-1	Total/NA	Solid	5035	
MB 880-51326/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51326/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51326/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4517-1 MS	FS-05	Total/NA	Solid	5035	
890-4517-1 MSD	FS-05	Total/NA	Solid	5035	

Analysis Batch: 51410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-1	FS-05	Total/NA	Solid	Total BTEX	
890-4517-2	FS-06	Total/NA	Solid	Total BTEX	
890-4517-3	FS-07	Total/NA	Solid	Total BTEX	
890-4517-4	FS-08	Total/NA	Solid	Total BTEX	
890-4517-5	FS-09	Total/NA	Solid	Total BTEX	
890-4517-6	FS-10	Total/NA	Solid	Total BTEX	
890-4517-7	FS-11	Total/NA	Solid	Total BTEX	
890-4517-8	FS-12	Total/NA	Solid	Total BTEX	
890-4517-9	FS-13	Total/NA	Solid	Total BTEX	
890-4517-10	FS-14	Total/NA	Solid	Total BTEX	
890-4517-11	FS-15	Total/NA	Solid	Total BTEX	
890-4517-12	N-SW-2	Total/NA	Solid	Total BTEX	
890-4517-13	E-SW-2	Total/NA	Solid	Total BTEX	
890-4517-14	E-SW-4	Total/NA	Solid	Total BTEX	
890-4517-15	W-SW-2	Total/NA	Solid	Total BTEX	
890-4517-16	W-SW-3	Total/NA	Solid	Total BTEX	
890-4517-17	W-SW-4	Total/NA	Solid	Total BTEX	
890-4517-18	W-SW-5	Total/NA	Solid	Total BTEX	
890-4517-19	W-SW-6	Total/NA	Solid	Total BTEX	
890-4517-20	S-SW-1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 51267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-1	FS-05	Total/NA	Solid	8015B NM	51298
890-4517-2	FS-06	Total/NA	Solid	8015B NM	51298
890-4517-3	FS-07	Total/NA	Solid	8015B NM	51298
890-4517-4	FS-08	Total/NA	Solid	8015B NM	51298
890-4517-5	FS-09	Total/NA	Solid	8015B NM	51298
890-4517-6	FS-10	Total/NA	Solid	8015B NM	51298
890-4517-7	FS-11	Total/NA	Solid	8015B NM	51298
890-4517-8	FS-12	Total/NA	Solid	8015B NM	51298
890-4517-9	FS-13	Total/NA	Solid	8015B NM	51298
890-4517-10	FS-14	Total/NA	Solid	8015B NM	51298
890-4517-11	FS-15	Total/NA	Solid	8015B NM	51298
890-4517-12	N-SW-2	Total/NA	Solid	8015B NM	51298
890-4517-13	E-SW-2	Total/NA	Solid	8015B NM	51298
890-4517-14	E-SW-4	Total/NA	Solid	8015B NM	51298
890-4517-15	W-SW-2	Total/NA	Solid	8015B NM	51298
890-4517-16	W-SW-3	Total/NA	Solid	8015B NM	51298

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

GC Semi VOA (Continued)

Analysis Batch: 51267 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-17	W-SW-4	Total/NA	Solid	8015B NM	51298
890-4517-18	W-SW-5	Total/NA	Solid	8015B NM	51298
890-4517-19	W-SW-6	Total/NA	Solid	8015B NM	51298
890-4517-20	S-SW-1	Total/NA	Solid	8015B NM	51298
MB 880-51298/1-A	Method Blank	Total/NA	Solid	8015B NM	51298
LCS 880-51298/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51298
LCSD 880-51298/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51298
890-4517-1 MS	FS-05	Total/NA	Solid	8015B NM	51298
890-4517-1 MSD	FS-05	Total/NA	Solid	8015B NM	51298

Prep Batch: 51298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-1	FS-05	Total/NA	Solid	8015NM Prep	
890-4517-2	FS-06	Total/NA	Solid	8015NM Prep	
890-4517-3	FS-07	Total/NA	Solid	8015NM Prep	
890-4517-4	FS-08	Total/NA	Solid	8015NM Prep	
890-4517-5	FS-09	Total/NA	Solid	8015NM Prep	
890-4517-6	FS-10	Total/NA	Solid	8015NM Prep	
890-4517-7	FS-11	Total/NA	Solid	8015NM Prep	
890-4517-8	FS-12	Total/NA	Solid	8015NM Prep	
890-4517-9	FS-13	Total/NA	Solid	8015NM Prep	
890-4517-10	FS-14	Total/NA	Solid	8015NM Prep	
890-4517-11	FS-15	Total/NA	Solid	8015NM Prep	
890-4517-12	N-SW-2	Total/NA	Solid	8015NM Prep	
890-4517-13	E-SW-2	Total/NA	Solid	8015NM Prep	
890-4517-14	E-SW-4	Total/NA	Solid	8015NM Prep	
890-4517-15	W-SW-2	Total/NA	Solid	8015NM Prep	
890-4517-16	W-SW-3	Total/NA	Solid	8015NM Prep	
890-4517-17	W-SW-4	Total/NA	Solid	8015NM Prep	
890-4517-18	W-SW-5	Total/NA	Solid	8015NM Prep	
890-4517-19	W-SW-6	Total/NA	Solid	8015NM Prep	
890-4517-20	S-SW-1	Total/NA	Solid	8015NM Prep	
MB 880-51298/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51298/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51298/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4517-1 MS	FS-05	Total/NA	Solid	8015NM Prep	
890-4517-1 MSD	FS-05	Total/NA	Solid	8015NM Prep	

Analysis Batch: 51394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-1	FS-05	Total/NA	Solid	8015 NM	
890-4517-2	FS-06	Total/NA	Solid	8015 NM	
890-4517-3	FS-07	Total/NA	Solid	8015 NM	
890-4517-4	FS-08	Total/NA	Solid	8015 NM	
890-4517-5	FS-09	Total/NA	Solid	8015 NM	
890-4517-6	FS-10	Total/NA	Solid	8015 NM	
890-4517-7	FS-11	Total/NA	Solid	8015 NM	
890-4517-8	FS-12	Total/NA	Solid	8015 NM	
890-4517-9	FS-13	Total/NA	Solid	8015 NM	
890-4517-10	FS-14	Total/NA	Solid	8015 NM	
890-4517-11	FS-15	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: MableyJob ID: 890-4517-1
SDG: KH227027

GC Semi VOA (Continued)

Analysis Batch: 51394 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-12	N-SW-2	Total/NA	Solid	8015 NM	
890-4517-13	E-SW-2	Total/NA	Solid	8015 NM	
890-4517-14	E-SW-4	Total/NA	Solid	8015 NM	
890-4517-15	W-SW-2	Total/NA	Solid	8015 NM	
890-4517-16	W-SW-3	Total/NA	Solid	8015 NM	
890-4517-17	W-SW-4	Total/NA	Solid	8015 NM	
890-4517-18	W-SW-5	Total/NA	Solid	8015 NM	
890-4517-19	W-SW-6	Total/NA	Solid	8015 NM	
890-4517-20	S-SW-1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 51309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-1	FS-05	Soluble	Solid	DI Leach	
890-4517-2	FS-06	Soluble	Solid	DI Leach	
890-4517-3	FS-07	Soluble	Solid	DI Leach	
890-4517-4	FS-08	Soluble	Solid	DI Leach	
890-4517-5	FS-09	Soluble	Solid	DI Leach	
890-4517-6	FS-10	Soluble	Solid	DI Leach	
890-4517-7	FS-11	Soluble	Solid	DI Leach	
890-4517-8	FS-12	Soluble	Solid	DI Leach	
890-4517-9	FS-13	Soluble	Solid	DI Leach	
890-4517-10	FS-14	Soluble	Solid	DI Leach	
890-4517-11	FS-15	Soluble	Solid	DI Leach	
890-4517-12	N-SW-2	Soluble	Solid	DI Leach	
890-4517-13	E-SW-2	Soluble	Solid	DI Leach	
890-4517-14	E-SW-4	Soluble	Solid	DI Leach	
890-4517-15	W-SW-2	Soluble	Solid	DI Leach	
890-4517-16	W-SW-3	Soluble	Solid	DI Leach	
890-4517-17	W-SW-4	Soluble	Solid	DI Leach	
890-4517-18	W-SW-5	Soluble	Solid	DI Leach	
890-4517-19	W-SW-6	Soluble	Solid	DI Leach	
890-4517-20	S-SW-1	Soluble	Solid	DI Leach	
MB 880-51309/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51309/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51309/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4517-1 MS	FS-05	Soluble	Solid	DI Leach	
890-4517-1 MSD	FS-05	Soluble	Solid	DI Leach	
890-4517-11 MS	FS-15	Soluble	Solid	DI Leach	
890-4517-11 MSD	FS-15	Soluble	Solid	DI Leach	

Analysis Batch: 51811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-1	FS-05	Soluble	Solid	300.0	51309
890-4517-2	FS-06	Soluble	Solid	300.0	51309
890-4517-3	FS-07	Soluble	Solid	300.0	51309
890-4517-4	FS-08	Soluble	Solid	300.0	51309
890-4517-5	FS-09	Soluble	Solid	300.0	51309
890-4517-6	FS-10	Soluble	Solid	300.0	51309
890-4517-7	FS-11	Soluble	Solid	300.0	51309

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mabley

Job ID: 890-4517-1
SDG: KH227027

HPLC/IC (Continued)

Analysis Batch: 51811 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-8	FS-12	Soluble	Solid	300.0	51309
890-4517-9	FS-13	Soluble	Solid	300.0	51309
890-4517-10	FS-14	Soluble	Solid	300.0	51309
890-4517-11	FS-15	Soluble	Solid	300.0	51309
890-4517-12	N-SW-2	Soluble	Solid	300.0	51309
890-4517-13	E-SW-2	Soluble	Solid	300.0	51309
890-4517-14	E-SW-4	Soluble	Solid	300.0	51309
890-4517-15	W-SW-2	Soluble	Solid	300.0	51309
890-4517-16	W-SW-3	Soluble	Solid	300.0	51309
890-4517-17	W-SW-4	Soluble	Solid	300.0	51309
890-4517-18	W-SW-5	Soluble	Solid	300.0	51309
890-4517-19	W-SW-6	Soluble	Solid	300.0	51309
890-4517-20	S-SW-1	Soluble	Solid	300.0	51309
MB 880-51309/1-A	Method Blank	Soluble	Solid	300.0	51309
LCS 880-51309/2-A	Lab Control Sample	Soluble	Solid	300.0	51309
LCSD 880-51309/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51309
890-4517-1 MS	FS-05	Soluble	Solid	300.0	51309
890-4517-1 MSD	FS-05	Soluble	Solid	300.0	51309
890-4517-11 MS	FS-15	Soluble	Solid	300.0	51309
890-4517-11 MSD	FS-15	Soluble	Solid	300.0	51309

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: FS-05
 Date Collected: 04/14/23 10:00
 Date Received: 04/14/23 12:13

Lab Sample ID: 890-4517-1
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 02:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 13:22	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51811	04/24/23 18:49	SMC	EET MID

Client Sample ID: FS-06
 Date Collected: 04/14/23 10:02
 Date Received: 04/14/23 12:13

Lab Sample ID: 890-4517-2
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 02:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 14:28	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	51811	04/24/23 19:03	SMC	EET MID

Client Sample ID: FS-07
 Date Collected: 04/14/23 10:04
 Date Received: 04/14/23 12:13

Lab Sample ID: 890-4517-3
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 03:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 14:50	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	51811	04/24/23 19:07	SMC	EET MID

Client Sample ID: FS-08
 Date Collected: 04/14/23 10:06
 Date Received: 04/14/23 12:13

Lab Sample ID: 890-4517-4
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 03:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: FS-08
 Date Collected: 04/14/23 10:06
 Date Received: 04/14/23 12:13

Lab Sample ID: 890-4517-4
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 15:12	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51811	04/24/23 19:12	SMC	EET MID

Client Sample ID: FS-09
 Date Collected: 04/14/23 10:08
 Date Received: 04/14/23 12:13

Lab Sample ID: 890-4517-5
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 03:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 15:34	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51811	04/24/23 19:16	SMC	EET MID

Client Sample ID: FS-10
 Date Collected: 04/14/23 10:10
 Date Received: 04/14/23 12:13

Lab Sample ID: 890-4517-6
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 04:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 15:56	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51811	04/24/23 19:30	SMC	EET MID

Client Sample ID: FS-11
 Date Collected: 04/14/23 10:12
 Date Received: 04/14/23 12:13

Lab Sample ID: 890-4517-7
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 04:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 16:18	SM	EET MID

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: FS-11

Lab Sample ID: 890-4517-7

Date Collected: 04/14/23 10:12

Matrix: Solid

Date Received: 04/14/23 12:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51811	04/24/23 19:35	SMC	EET MID

Client Sample ID: FS-12

Lab Sample ID: 890-4517-8

Date Collected: 04/14/23 10:14

Matrix: Solid

Date Received: 04/14/23 12:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 05:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 16:40	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51811	04/24/23 19:39	SMC	EET MID

Client Sample ID: FS-13

Lab Sample ID: 890-4517-9

Date Collected: 04/14/23 10:16

Matrix: Solid

Date Received: 04/14/23 12:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 05:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 17:01	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51811	04/24/23 19:44	SMC	EET MID

Client Sample ID: FS-14

Lab Sample ID: 890-4517-10

Date Collected: 04/14/23 10:18

Matrix: Solid

Date Received: 04/14/23 12:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 06:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 17:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51811	04/24/23 19:48	SMC	EET MID

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: FS-15
 Date Collected: 04/14/23 10:20
 Date Received: 04/14/23 12:13

Lab Sample ID: 890-4517-11
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 07:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 18:32	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51811	04/24/23 19:53	SMC	EET MID

Client Sample ID: N-SW-2
 Date Collected: 04/14/23 10:22
 Date Received: 04/14/23 12:13

Lab Sample ID: 890-4517-12
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 08:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 18:53	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51811	04/24/23 20:07	SMC	EET MID

Client Sample ID: E-SW-2
 Date Collected: 04/14/23 10:24
 Date Received: 04/14/23 12:13

Lab Sample ID: 890-4517-13
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 08:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 19:15	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	51811	04/24/23 20:11	SMC	EET MID

Client Sample ID: E-SW-4
 Date Collected: 04/14/23 10:26
 Date Received: 04/14/23 12:13

Lab Sample ID: 890-4517-14
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 09:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: E-SW-4

Lab Sample ID: 890-4517-14

Date Collected: 04/14/23 10:26

Matrix: Solid

Date Received: 04/14/23 12:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 19:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51811	04/24/23 20:25	SMC	EET MID

Client Sample ID: W-SW-2

Lab Sample ID: 890-4517-15

Date Collected: 04/14/23 10:28

Matrix: Solid

Date Received: 04/14/23 12:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 09:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 19:58	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51811	04/24/23 20:29	SMC	EET MID

Client Sample ID: W-SW-3

Lab Sample ID: 890-4517-16

Date Collected: 04/14/23 10:30

Matrix: Solid

Date Received: 04/14/23 12:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 10:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 20:20	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51811	04/24/23 20:34	SMC	EET MID

Client Sample ID: W-SW-4

Lab Sample ID: 890-4517-17

Date Collected: 04/14/23 10:32

Matrix: Solid

Date Received: 04/14/23 12:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 10:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 20:41	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mabley

Job ID: 890-4517-1
 SDG: KH227027

Client Sample ID: W-SW-4

Lab Sample ID: 890-4517-17

Date Collected: 04/14/23 10:32

Matrix: Solid

Date Received: 04/14/23 12:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51811	04/24/23 20:38	SMC	EET MID

Client Sample ID: W-SW-5

Lab Sample ID: 890-4517-18

Date Collected: 04/14/23 10:34

Matrix: Solid

Date Received: 04/14/23 12:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 11:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 21:03	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51811	04/24/23 20:43	SMC	EET MID

Client Sample ID: W-SW-6

Lab Sample ID: 890-4517-19

Date Collected: 04/14/23 10:36

Matrix: Solid

Date Received: 04/14/23 12:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 11:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 21:24	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51811	04/24/23 20:48	SMC	EET MID

Client Sample ID: S-SW-1

Lab Sample ID: 890-4517-20

Date Collected: 04/14/23 10:38

Matrix: Solid

Date Received: 04/14/23 12:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 12:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 21:45	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51811	04/24/23 20:52	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Mabley

Job ID: 890-4517-1
SDG: KH227027

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mabley

Job ID: 890-4517-1
SDG: KH227027

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mabley

Job ID: 890-4517-1
SDG: KH227027

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mabley

Job ID: 890-4517-1
SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4517-1	FS-05	Solid	04/14/23 10:00	04/14/23 12:13	5
890-4517-2	FS-06	Solid	04/14/23 10:02	04/14/23 12:13	5
890-4517-3	FS-07	Solid	04/14/23 10:04	04/14/23 12:13	5
890-4517-4	FS-08	Solid	04/14/23 10:06	04/14/23 12:13	5
890-4517-5	FS-09	Solid	04/14/23 10:08	04/14/23 12:13	5
890-4517-6	FS-10	Solid	04/14/23 10:10	04/14/23 12:13	5
890-4517-7	FS-11	Solid	04/14/23 10:12	04/14/23 12:13	5
890-4517-8	FS-12	Solid	04/14/23 10:14	04/14/23 12:13	5
890-4517-9	FS-13	Solid	04/14/23 10:16	04/14/23 12:13	5
890-4517-10	FS-14	Solid	04/14/23 10:18	04/14/23 12:13	5
890-4517-11	FS-15	Solid	04/14/23 10:20	04/14/23 12:13	5
890-4517-12	N-SW-2	Solid	04/14/23 10:22	04/14/23 12:13	0 - 5
890-4517-13	E-SW-2	Solid	04/14/23 10:24	04/14/23 12:13	0 - 5
890-4517-14	E-SW-4	Solid	04/14/23 10:26	04/14/23 12:13	0 - 5
890-4517-15	W-SW-2	Solid	04/14/23 10:28	04/14/23 12:13	0 - 5
890-4517-16	W-SW-3	Solid	04/14/23 10:30	04/14/23 12:13	0 - 5
890-4517-17	W-SW-4	Solid	04/14/23 10:32	04/14/23 12:13	0 - 5
890-4517-18	W-SW-5	Solid	04/14/23 10:34	04/14/23 12:13	0 - 5
890-4517-19	W-SW-6	Solid	04/14/23 10:36	04/14/23 12:13	0 - 5
890-4517-20	S-SW-1	Solid	04/14/23 10:38	04/14/23 12:13	0 - 5

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Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager: Joe Guenther
 Company Name: Juxtacon
 Address: 4518 W Purca
 City, State ZIP: Carlsbad NM 88220
 Bill to: (if different)
 Company Name:
 Address:
 City, State ZIP:
 Email:

Program: UST/PST PAP Brownfields RRC Superfund
 State of Project:
 Reporting: Level II Level III PST/UST TRRP Level IV
 Deliverables: EDD ADAPT Other:

Project Name: Mabelly
 Project Number: KH222027
 Project Location: Eddy Mills
 Sampler's Name: Eddy Mills
 P.O. #:
 SAMPLE RECEIPT
 Samples Received In tact: Yes No
 Cooler Custody Seals: Yes No N/A
 Sample Custody Seals: Yes No N/A
 Total Containers: 7.8
 Turn Around: Routine Rush
 Due Date:
 TAT starts the day received by the lab, if received by 4:30pm
 Wet Ice: Yes No
 Thermometer ID: TNW0057
 Correction Factor: -0.0
 Temperature Reading: R.O
 Corrected Temperature: 7.8
 Pres. Code
 ANALYSIS REQUEST
 Preservative Codes:
 None: NO DI Water: H₂O
 Cool: Cool MeOH: Me
 HCL: HC HNO₃: HN
 H₂SO₄: H₂ NaOH: Na
 H₃PO₄: HP
 NaHSO₄: NABIS
 Na₂S₂O₅: NaSO₃
 Zn Acetate+NaOH: Zn
 NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters
ES - 05	S	4/14	10:00	5	C	1	chloride EPA 300
ES - 06			10:02				BTEX (8021B)
ES - 07			10:04				TPH (8015)
ES - 08			10:06				
ES - 09			10:08				
ES - 10			10:10				
ES - 11			10:12				
ES - 12			10:14				
ES - 13			10:16				
ES - 14			10:18				

Total 2007 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mn Mo Ni K Se Ag SIO₂ Na Sr TI Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Hg: 1631 / 245:1 / 7470 / 7471

Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature) Received by: (Signature)
 Date/Time Date/Time
 4/14/23 12:13
 4



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Joe Guanter	Bill to: (if different)	
Company Name:	Tarrant County	Company Name:	
Address:	4518 W Packer	Address:	
City, State ZIP:	Carlsbad NM 88228	City, State ZIP:	
Phone:		Email:	

Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____

Project Name:	Mobley	Turn Around		Pres. Code		ANALYSIS REQUEST	Preservative Codes	
Project Number:	KH227027	Route	<input type="checkbox"/> Rush				None: NO	DI Water: H ₂ O
Project Location:	Edley	Due Date:					Cool: Cool	MeOH: Me
Sampler's Name:	Bailey Ypeller	TAT starts the day received by the lab, if received by 4:30pm					HCL: HC	HNO ₃ : HN
PO #:		Wet Ice:	Yes No				H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes No	Thermometer ID:	Yes No		H ₃ PO ₄ : HP	
Samples Received In tact:	Yes No	Cooler Custody Seals:	Yes No N/A	Correction Factor:			NaHSO ₄ : NABIS	
Sample Custody Seals:	Yes No N/A	Temperature Reading:					Na ₂ S ₂ O ₅ : NaSO ₃	
Total Containers:		Corrected Temperature:					Zn Acetate+NaOH: Zn	
							NaOH+Ascorbic Acid: SARC	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Sample Comments
ES-15	S	4/14	10:20	5'	C	1	chloride EPA 300	
N-SW-2			10:22	0-5		1	BTEX (8021 B)	
E-SW-2			10:24			1	TPH (8015)	
E-SW-4			10:26			1		
W-SW-2			10:28			1		
W-SW-3			10:30			1		
W-SW-4			10:32			1		
W-SW-5			10:34			1		
W-SW-6			10:36			1		
S-SW-1			10:38			1		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Bailey Ypeller	Joe Guanter	4-14-23			

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4517-1

SDG Number: KH227027

Login Number: 4517

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4517-1

SDG Number: KH227027

Login Number: 4517

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 04/17/23 08:35 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
 Terracon Consulting Eng & Scientists
 5847 50th St
 Lubbock, Texas 79424
 Generated 4/26/2023 4:01:08 PM

JOB DESCRIPTION

Mobley
 SDG NUMBER KH227027

JOB NUMBER

890-4554-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220



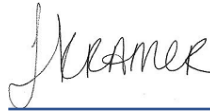
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
4/26/2023 4:01:08 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Eurofins Carlsbad

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Laboratory Job ID: 890-4554-1
SDG: KH227027

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4554-1
SDG: KH227027

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4554-1
SDG: KH227027

Job ID: 890-4554-1**Laboratory: Eurofins Carlsbad****Narrative**

Job Narrative
890-4554-1

Receipt

The samples were received on 4/20/2023 2:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 11.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: F-FS01 (890-4554-1), F-FS05 (890-4554-2), F-FS02 (890-4554-3), F-FS03 (890-4554-4), F-FS04 (890-4554-5), F-N-SW1 (890-4554-6), F-E-SW1 (890-4554-7), F-E-SW2 (890-4554-8), F-W-SW1 (890-4554-9), F-W-SW2 (890-4554-10) and F-S-SW1 (890-4554-11).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-51919 recovered above the upper control limit for o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: F-FS05 (890-4554-2) and F-E-SW2 (890-4554-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-51847/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-51847 and analytical batch 880-51919 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-51848 and analytical batch 880-51824 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-51848/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: F-S-SW1 (890-4554-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-51824/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-51824/31). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-51848 and analytical batch 880-51824 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-51824 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-51824/5).

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-51837/2-A). Evidence of matrix

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4554-1
SDG: KH227027

Job ID: 890-4554-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: F-FS02 (890-4554-3), F-FS03 (890-4554-4) and F-FS04 (890-4554-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: F-W-SW2 (890-4554-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: MobleyJob ID: 890-4554-1
SDG: KH227027

Client Sample ID: F-FS01

Lab Sample ID: 890-4554-1

Date Collected: 04/20/23 11:10

Matrix: Solid

Date Received: 04/20/23 14:40

Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/25/23 23:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/25/23 23:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/25/23 23:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/25/23 23:39	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		04/24/23 12:25	04/25/23 23:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/25/23 23:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/24/23 12:25	04/25/23 23:39	1
1,4-Difluorobenzene (Surr)	81		70 - 130	04/24/23 12:25	04/25/23 23:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/26/23 10:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/25/23 12:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/24/23 11:06	04/24/23 17:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/24/23 11:06	04/24/23 17:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/24/23 11:06	04/24/23 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	04/24/23 11:06	04/24/23 17:43	1
o-Terphenyl	112		70 - 130	04/24/23 11:06	04/24/23 17:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.3		5.03		mg/Kg			04/26/23 12:40	1

Client Sample ID: F-FS05

Lab Sample ID: 890-4554-2

Date Collected: 04/20/23 11:30

Matrix: Solid

Date Received: 04/20/23 14:40

Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/25/23 23:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/25/23 23:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/25/23 23:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/25/23 23:59	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		04/24/23 12:25	04/25/23 23:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/25/23 23:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	04/24/23 12:25	04/25/23 23:59	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4554-1
 SDG: KH227027

Client Sample ID: F-FS05

Lab Sample ID: 890-4554-2

Date Collected: 04/20/23 11:30

Matrix: Solid

Date Received: 04/20/23 14:40

Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	61	S1-	70 - 130	04/24/23 12:25	04/25/23 23:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/26/23 10:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/25/23 12:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/24/23 11:06	04/24/23 18:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/24/23 11:06	04/24/23 18:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/24/23 11:06	04/24/23 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130	04/24/23 11:06	04/24/23 18:06	1
o-Terphenyl	114		70 - 130	04/24/23 11:06	04/24/23 18:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	481		5.04		mg/Kg			04/26/23 12:44	1

Client Sample ID: F-FS02

Lab Sample ID: 890-4554-3

Date Collected: 04/20/23 11:43

Matrix: Solid

Date Received: 04/20/23 14:40

Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 00:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 00:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 00:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/24/23 12:25	04/26/23 00:20	1
o-Xylene	<0.00200	U**	0.00200		mg/Kg		04/24/23 12:25	04/26/23 00:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/24/23 12:25	04/26/23 00:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/24/23 12:25	04/26/23 00:20	1
1,4-Difluorobenzene (Surr)	78		70 - 130	04/24/23 12:25	04/26/23 00:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/26/23 10:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/25/23 12:25	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4554-1
 SDG: KH227027

Client Sample ID: F-FS02

Lab Sample ID: 890-4554-3

Date Collected: 04/20/23 11:43

Matrix: Solid

Date Received: 04/20/23 14:40

Sample Depth: 2'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/24/23 18:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/24/23 18:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/24/23 18:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				04/24/23 11:06	04/24/23 18:28	1
o-Terphenyl	119		70 - 130				04/24/23 11:06	04/24/23 18:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	676		5.00		mg/Kg			04/26/23 12:58	1

Client Sample ID: F-FS03

Lab Sample ID: 890-4554-4

Date Collected: 04/20/23 11:50

Matrix: Solid

Date Received: 04/20/23 14:40

Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/24/23 12:25	04/26/23 00:40	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/24/23 12:25	04/26/23 00:40	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/24/23 12:25	04/26/23 00:40	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/24/23 12:25	04/26/23 00:40	1
o-Xylene	<0.00202	U *	0.00202		mg/Kg		04/24/23 12:25	04/26/23 00:40	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/24/23 12:25	04/26/23 00:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/24/23 12:25	04/26/23 00:40	1
1,4-Difluorobenzene (Surr)	71		70 - 130				04/24/23 12:25	04/26/23 00:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/26/23 10:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/25/23 12:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/24/23 11:06	04/24/23 18:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/24/23 11:06	04/24/23 18:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/24/23 11:06	04/24/23 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				04/24/23 11:06	04/24/23 18:50	1
o-Terphenyl	119		70 - 130				04/24/23 11:06	04/24/23 18:50	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4554-1
 SDG: KH227027

Client Sample ID: F-FS03

Lab Sample ID: 890-4554-4

Date Collected: 04/20/23 11:50
 Date Received: 04/20/23 14:40
 Sample Depth: 2'

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	374		4.97		mg/Kg			04/26/23 13:03	1

Client Sample ID: F-FS04

Lab Sample ID: 890-4554-5

Date Collected: 04/20/23 11:57
 Date Received: 04/20/23 14:40
 Sample Depth: 2'

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/26/23 01:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/26/23 01:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/26/23 01:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/26/23 01:01	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		04/24/23 12:25	04/26/23 01:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/26/23 01:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				04/24/23 12:25	04/26/23 01:01	1
1,4-Difluorobenzene (Surr)	80		70 - 130				04/24/23 12:25	04/26/23 01:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/26/23 10:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/25/23 12:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/24/23 11:06	04/24/23 19:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/24/23 11:06	04/24/23 19:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/24/23 11:06	04/24/23 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				04/24/23 11:06	04/24/23 19:11	1
o-Terphenyl	121		70 - 130				04/24/23 11:06	04/24/23 19:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	451		4.98		mg/Kg			04/26/23 13:07	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4554-1
 SDG: KH227027

Client Sample ID: F-N-SW1

Lab Sample ID: 890-4554-6

Date Collected: 04/20/23 12:53

Matrix: Solid

Date Received: 04/20/23 14:40

Sample Depth: 0-2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/26/23 02:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/26/23 02:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/26/23 02:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/26/23 02:23	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		04/24/23 12:25	04/26/23 02:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/26/23 02:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	04/24/23 12:25	04/26/23 02:23	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/24/23 12:25	04/26/23 02:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/26/23 10:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	75.6		49.8		mg/Kg			04/25/23 12:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/25/23 06:47	1
Diesel Range Organics (Over C10-C28)	75.6		49.8		mg/Kg		04/24/23 11:06	04/25/23 06:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/25/23 06:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	04/24/23 11:06	04/25/23 06:47	1
o-Terphenyl	112		70 - 130	04/24/23 11:06	04/25/23 06:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	294		5.01		mg/Kg			04/26/23 13:12	1

Client Sample ID: F-E-SW1

Lab Sample ID: 890-4554-7

Date Collected: 04/20/23 12:53

Matrix: Solid

Date Received: 04/20/23 14:40

Sample Depth: 0-2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 02:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 02:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 02:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/24/23 12:25	04/26/23 02:43	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		04/24/23 12:25	04/26/23 02:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/24/23 12:25	04/26/23 02:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/24/23 12:25	04/26/23 02:43	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4554-1
 SDG: KH227027

Client Sample ID: F-E-SW1

Lab Sample ID: 890-4554-7

Date Collected: 04/20/23 12:53

Matrix: Solid

Date Received: 04/20/23 14:40

Sample Depth: 0-2

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	77		70 - 130	04/24/23 12:25	04/26/23 02:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/26/23 10:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/25/23 12:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/25/23 07:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/25/23 07:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/25/23 07:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	04/24/23 11:06	04/25/23 07:09	1
o-Terphenyl	94		70 - 130	04/24/23 11:06	04/25/23 07:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	233		4.99		mg/Kg			04/26/23 13:16	1

Client Sample ID: F-E-SW2

Lab Sample ID: 890-4554-8

Date Collected: 04/20/23 13:07

Matrix: Solid

Date Received: 04/20/23 14:40

Sample Depth: 0-2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/24/23 12:25	04/26/23 03:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/24/23 12:25	04/26/23 03:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/24/23 12:25	04/26/23 03:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/24/23 12:25	04/26/23 03:03	1
o-Xylene	<0.00201	U**	0.00201		mg/Kg		04/24/23 12:25	04/26/23 03:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/24/23 12:25	04/26/23 03:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	04/24/23 12:25	04/26/23 03:03	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130	04/24/23 12:25	04/26/23 03:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/26/23 10:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/25/23 12:25	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4554-1
 SDG: KH227027

Client Sample ID: F-E-SW2

Lab Sample ID: 890-4554-8

Date Collected: 04/20/23 13:07

Matrix: Solid

Date Received: 04/20/23 14:40

Sample Depth: 0-2

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/24/23 11:06	04/25/23 07:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/24/23 11:06	04/25/23 07:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/24/23 11:06	04/25/23 07:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				04/24/23 11:06	04/25/23 07:31	1
o-Terphenyl	90		70 - 130				04/24/23 11:06	04/25/23 07:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	234		5.03		mg/Kg			04/26/23 13:21	1

Client Sample ID: F-W-SW1

Lab Sample ID: 890-4554-9

Date Collected: 04/20/23 13:09

Matrix: Solid

Date Received: 04/20/23 14:40

Sample Depth: 0-2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 03:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 03:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 03:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/24/23 12:25	04/26/23 03:24	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		04/24/23 12:25	04/26/23 03:24	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/24/23 12:25	04/26/23 03:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/24/23 12:25	04/26/23 03:24	1
1,4-Difluorobenzene (Surr)	89		70 - 130				04/24/23 12:25	04/26/23 03:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/26/23 10:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/25/23 12:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/25/23 07:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/25/23 07:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/25/23 07:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				04/24/23 11:06	04/25/23 07:52	1
o-Terphenyl	116		70 - 130				04/24/23 11:06	04/25/23 07:52	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4554-1
 SDG: KH227027

Client Sample ID: F-W-SW1

Lab Sample ID: 890-4554-9

Date Collected: 04/20/23 13:09

Matrix: Solid

Date Received: 04/20/23 14:40

Sample Depth: 0-2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		5.05		mg/Kg			04/26/23 13:34	1

Client Sample ID: F-W-SW2

Lab Sample ID: 890-4554-10

Date Collected: 04/20/23 13:15

Matrix: Solid

Date Received: 04/20/23 14:40

Sample Depth: 0-2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/26/23 03:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/26/23 03:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/26/23 03:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/26/23 03:44	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		04/24/23 12:25	04/26/23 03:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/26/23 03:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				04/24/23 12:25	04/26/23 03:44	1
1,4-Difluorobenzene (Surr)	72		70 - 130				04/24/23 12:25	04/26/23 03:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/26/23 10:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/25/23 12:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/24/23 11:06	04/25/23 08:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/24/23 11:06	04/25/23 08:14	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/24/23 11:06	04/25/23 08:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				04/24/23 11:06	04/25/23 08:14	1
o-Terphenyl	116		70 - 130				04/24/23 11:06	04/25/23 08:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	132		5.02		mg/Kg			04/26/23 13:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4554-1
 SDG: KH227027

Client Sample ID: F-S-SW1

Lab Sample ID: 890-4554-11

Date Collected: 04/20/23 13:19

Matrix: Solid

Date Received: 04/20/23 14:40

Sample Depth: 0-2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 04:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 04:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 04:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/24/23 12:25	04/26/23 04:05	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		04/24/23 12:25	04/26/23 04:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/24/23 12:25	04/26/23 04:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/24/23 12:25	04/26/23 04:05	1
1,4-Difluorobenzene (Surr)	87		70 - 130	04/24/23 12:25	04/26/23 04:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/26/23 10:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/25/23 10:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	50.0		mg/Kg		04/24/23 12:29	04/24/23 16:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/24/23 12:29	04/24/23 16:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/24/23 12:29	04/24/23 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	04/24/23 12:29	04/24/23 16:36	1
o-Terphenyl	159	S1+	70 - 130	04/24/23 12:29	04/24/23 16:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		4.98		mg/Kg			04/26/23 13:53	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4554-1
SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-4554-1	F-FS01	110	81
890-4554-2	F-FS05	117	61 S1-
890-4554-3	F-FS02	109	78
890-4554-4	F-FS03	108	71
890-4554-5	F-FS04	114	80
890-4554-6	F-N-SW1	93	93
890-4554-7	F-E-SW1	100	77
890-4554-8	F-E-SW2	114	65 S1-
890-4554-9	F-W-SW1	108	89
890-4554-10	F-W-SW2	105	72
890-4554-11	F-S-SW1	107	87
LCS 880-51847/1-A	Lab Control Sample	134 S1+	95
LCSD 880-51847/2-A	Lab Control Sample Dup	121	99
MB 880-51847/5-A	Method Blank	84	81
MB 880-51922/5-A	Method Blank	79	94

Surrogate Legend
BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-4554-1	F-FS01	128	112
890-4554-2	F-FS05	129	114
890-4554-3	F-FS02	134 S1+	119
890-4554-4	F-FS03	134 S1+	119
890-4554-5	F-FS04	137 S1+	121
890-4554-6	F-N-SW1	126	112
890-4554-7	F-E-SW1	108	94
890-4554-8	F-E-SW2	104	90
890-4554-9	F-W-SW1	130	116
890-4554-10	F-W-SW2	131 S1+	116
890-4554-11	F-S-SW1	132 S1+	159 S1+
890-4554-11 MS	F-S-SW1	91	103
890-4554-11 MSD	F-S-SW1	109	117
LCS 880-51837/2-A	Lab Control Sample	144 S1+	127
LCS 880-51848/2-A	Lab Control Sample	106	130
LCSD 880-51837/3-A	Lab Control Sample Dup	129	110
LCSD 880-51848/3-A	Lab Control Sample Dup	124	150 S1+
MB 880-51837/1-A	Method Blank	123	116
MB 880-51848/1-A	Method Blank	119	154 S1+

Surrogate Legend
1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4554-1
 SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-51847/5-A
 Matrix: Solid
 Analysis Batch: 51919

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 51847

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/25/23 21:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/25/23 21:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/25/23 21:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/24/23 12:25	04/25/23 21:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/25/23 21:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/24/23 12:25	04/25/23 21:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	04/24/23 12:25	04/25/23 21:35	1
1,4-Difluorobenzene (Surr)	81		70 - 130	04/24/23 12:25	04/25/23 21:35	1

Lab Sample ID: LCS 880-51847/1-A
 Matrix: Solid
 Analysis Batch: 51919

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 51847

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08631		mg/Kg		86	70 - 130
Toluene	0.100	0.09597		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1120		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2393		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1306	*+	mg/Kg		131	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-51847/2-A
 Matrix: Solid
 Analysis Batch: 51919

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 51847

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09470		mg/Kg		95	70 - 130	9	35
Toluene	0.100	0.09741		mg/Kg		97	70 - 130	1	35
Ethylbenzene	0.100	0.1068		mg/Kg		107	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2288		mg/Kg		114	70 - 130	4	35
o-Xylene	0.100	0.1317	*+	mg/Kg		132	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-51922/5-A
 Matrix: Solid
 Analysis Batch: 51919

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 51922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/25/23 08:22	04/25/23 11:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/25/23 08:22	04/25/23 11:00	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4554-1
 SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-51922/5-A
 Matrix: Solid
 Analysis Batch: 51919

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 51922

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/25/23 08:22	04/25/23 11:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/25/23 08:22	04/25/23 11:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/25/23 08:22	04/25/23 11:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/25/23 08:22	04/25/23 11:00	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	79		70 - 130	04/25/23 08:22	04/25/23 11:00	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/25/23 08:22	04/25/23 11:00	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-51837/1-A
 Matrix: Solid
 Analysis Batch: 51822

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 51837

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/24/23 08:06	04/24/23 09:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/24/23 08:06	04/24/23 09:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/24/23 08:06	04/24/23 09:03	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	123		70 - 130	04/24/23 08:06	04/24/23 09:03	1
o-Terphenyl	116		70 - 130	04/24/23 08:06	04/24/23 09:03	1

Lab Sample ID: LCS 880-51837/2-A
 Matrix: Solid
 Analysis Batch: 51822

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 51837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	1179		mg/Kg		118	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	144	S1+	70 - 130
o-Terphenyl	127		70 - 130

Lab Sample ID: LCSD 880-51837/3-A
 Matrix: Solid
 Analysis Batch: 51822

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 51837

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Diesel Range Organics (Over C10-C28)	1000	1132		mg/Kg		113	70 - 130	4	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4554-1
 SDG: KH227027

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-51837/3-A
Matrix: Solid
Analysis Batch: 51822

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 51837

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	129		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: MB 880-51848/1-A
Matrix: Solid
Analysis Batch: 51824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 51848

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/24/23 12:29	04/24/23 15:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/24/23 12:29	04/24/23 15:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/24/23 12:29	04/24/23 15:31	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	119		70 - 130	04/24/23 12:29	04/24/23 15:31	1
o-Terphenyl	154	S1+	70 - 130	04/24/23 12:29	04/24/23 15:31	1

Lab Sample ID: LCS 880-51848/2-A
Matrix: Solid
Analysis Batch: 51824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51848

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	969.9		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	911.5		mg/Kg		91	70 - 130

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	106		70 - 130
o-Terphenyl	130		70 - 130

Lab Sample ID: LCSD 880-51848/3-A
Matrix: Solid
Analysis Batch: 51824

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 51848

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	1000	1095		mg/Kg		109	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	1052		mg/Kg		105	70 - 130	14	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	124		70 - 130
o-Terphenyl	150	S1+	70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4554-1
 SDG: KH227027

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-4554-11 MS
 Matrix: Solid
 Analysis Batch: 51824

Client Sample ID: F-S-SW1
 Prep Type: Total/NA
 Prep Batch: 51848

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	997	913.0		mg/Kg		92		70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1056		mg/Kg		106		70 - 130
Surrogate	%Recovery	Qualifier	Limits	MS	MS					
1-Chlorooctane	91		70 - 130							
o-Terphenyl	103		70 - 130							

Lab Sample ID: 890-4554-11 MSD
 Matrix: Solid
 Analysis Batch: 51824

Client Sample ID: F-S-SW1
 Prep Type: Total/NA
 Prep Batch: 51848

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	998	1200	F2	mg/Kg		120		70 - 130	27	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1231		mg/Kg		123		70 - 130	15	20
Surrogate	%Recovery	Qualifier	Limits	MSD	MSD							
1-Chlorooctane	109		70 - 130									
o-Terphenyl	117		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-51904/1-A
 Matrix: Solid
 Analysis Batch: 52044

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			04/26/23 12:03	1

Lab Sample ID: LCS 880-51904/2-A
 Matrix: Solid
 Analysis Batch: 52044

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
Chloride	250	239.6		mg/Kg		96		90 - 110

Lab Sample ID: LCSD 880-51904/3-A
 Matrix: Solid
 Analysis Batch: 52044

Client Sample ID: Lab Control Sample Dup
 Prep Type: Soluble

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
Chloride	250	246.4		mg/Kg		99		90 - 110	3	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4554-1
 SDG: KH227027

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4554-8 MS
 Matrix: Solid
 Analysis Batch: 52044

Client Sample ID: F-E-SW2
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	234		252	505.6		mg/Kg		108	90 - 110

Lab Sample ID: 890-4554-8 MSD
 Matrix: Solid
 Analysis Batch: 52044

Client Sample ID: F-E-SW2
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	234		252	507.4		mg/Kg		109	90 - 110	0	20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4554-1
 SDG: KH227027

GC VOA

Prep Batch: 51847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-1	F-FS01	Total/NA	Solid	5035	
890-4554-2	F-FS05	Total/NA	Solid	5035	
890-4554-3	F-FS02	Total/NA	Solid	5035	
890-4554-4	F-FS03	Total/NA	Solid	5035	
890-4554-5	F-FS04	Total/NA	Solid	5035	
890-4554-6	F-N-SW1	Total/NA	Solid	5035	
890-4554-7	F-E-SW1	Total/NA	Solid	5035	
890-4554-8	F-E-SW2	Total/NA	Solid	5035	
890-4554-9	F-W-SW1	Total/NA	Solid	5035	
890-4554-10	F-W-SW2	Total/NA	Solid	5035	
890-4554-11	F-S-SW1	Total/NA	Solid	5035	
MB 880-51847/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51847/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51847/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 51919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-1	F-FS01	Total/NA	Solid	8021B	51847
890-4554-2	F-FS05	Total/NA	Solid	8021B	51847
890-4554-3	F-FS02	Total/NA	Solid	8021B	51847
890-4554-4	F-FS03	Total/NA	Solid	8021B	51847
890-4554-5	F-FS04	Total/NA	Solid	8021B	51847
890-4554-6	F-N-SW1	Total/NA	Solid	8021B	51847
890-4554-7	F-E-SW1	Total/NA	Solid	8021B	51847
890-4554-8	F-E-SW2	Total/NA	Solid	8021B	51847
890-4554-9	F-W-SW1	Total/NA	Solid	8021B	51847
890-4554-10	F-W-SW2	Total/NA	Solid	8021B	51847
890-4554-11	F-S-SW1	Total/NA	Solid	8021B	51847
MB 880-51847/5-A	Method Blank	Total/NA	Solid	8021B	51847
MB 880-51922/5-A	Method Blank	Total/NA	Solid	8021B	51922
LCS 880-51847/1-A	Lab Control Sample	Total/NA	Solid	8021B	51847
LCSD 880-51847/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51847

Prep Batch: 51922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-51922/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 52025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-1	F-FS01	Total/NA	Solid	Total BTEX	
890-4554-2	F-FS05	Total/NA	Solid	Total BTEX	
890-4554-3	F-FS02	Total/NA	Solid	Total BTEX	
890-4554-4	F-FS03	Total/NA	Solid	Total BTEX	
890-4554-5	F-FS04	Total/NA	Solid	Total BTEX	
890-4554-6	F-N-SW1	Total/NA	Solid	Total BTEX	
890-4554-7	F-E-SW1	Total/NA	Solid	Total BTEX	
890-4554-8	F-E-SW2	Total/NA	Solid	Total BTEX	
890-4554-9	F-W-SW1	Total/NA	Solid	Total BTEX	
890-4554-10	F-W-SW2	Total/NA	Solid	Total BTEX	
890-4554-11	F-S-SW1	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4554-1
 SDG: KH227027

GC Semi VOA

Analysis Batch: 51822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-1	F-FS01	Total/NA	Solid	8015B NM	51837
890-4554-2	F-FS05	Total/NA	Solid	8015B NM	51837
890-4554-3	F-FS02	Total/NA	Solid	8015B NM	51837
890-4554-4	F-FS03	Total/NA	Solid	8015B NM	51837
890-4554-5	F-FS04	Total/NA	Solid	8015B NM	51837
890-4554-6	F-N-SW1	Total/NA	Solid	8015B NM	51837
890-4554-7	F-E-SW1	Total/NA	Solid	8015B NM	51837
890-4554-8	F-E-SW2	Total/NA	Solid	8015B NM	51837
890-4554-9	F-W-SW1	Total/NA	Solid	8015B NM	51837
890-4554-10	F-W-SW2	Total/NA	Solid	8015B NM	51837
MB 880-51837/1-A	Method Blank	Total/NA	Solid	8015B NM	51837
LCS 880-51837/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51837
LCSD 880-51837/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51837

Analysis Batch: 51824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-11	F-S-SW1	Total/NA	Solid	8015B NM	51848
MB 880-51848/1-A	Method Blank	Total/NA	Solid	8015B NM	51848
LCS 880-51848/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51848
LCSD 880-51848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51848
890-4554-11 MS	F-S-SW1	Total/NA	Solid	8015B NM	51848
890-4554-11 MSD	F-S-SW1	Total/NA	Solid	8015B NM	51848

Prep Batch: 51837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-1	F-FS01	Total/NA	Solid	8015NM Prep	
890-4554-2	F-FS05	Total/NA	Solid	8015NM Prep	
890-4554-3	F-FS02	Total/NA	Solid	8015NM Prep	
890-4554-4	F-FS03	Total/NA	Solid	8015NM Prep	
890-4554-5	F-FS04	Total/NA	Solid	8015NM Prep	
890-4554-6	F-N-SW1	Total/NA	Solid	8015NM Prep	
890-4554-7	F-E-SW1	Total/NA	Solid	8015NM Prep	
890-4554-8	F-E-SW2	Total/NA	Solid	8015NM Prep	
890-4554-9	F-W-SW1	Total/NA	Solid	8015NM Prep	
890-4554-10	F-W-SW2	Total/NA	Solid	8015NM Prep	
MB 880-51837/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51837/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51837/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 51848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-11	F-S-SW1	Total/NA	Solid	8015NM Prep	
MB 880-51848/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51848/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4554-11 MS	F-S-SW1	Total/NA	Solid	8015NM Prep	
890-4554-11 MSD	F-S-SW1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 51933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-1	F-FS01	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4554-1
SDG: KH227027

GC Semi VOA (Continued)

Analysis Batch: 51933 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-2	F-FS05	Total/NA	Solid	8015 NM	
890-4554-3	F-FS02	Total/NA	Solid	8015 NM	
890-4554-4	F-FS03	Total/NA	Solid	8015 NM	
890-4554-5	F-FS04	Total/NA	Solid	8015 NM	
890-4554-6	F-N-SW1	Total/NA	Solid	8015 NM	
890-4554-7	F-E-SW1	Total/NA	Solid	8015 NM	
890-4554-8	F-E-SW2	Total/NA	Solid	8015 NM	
890-4554-9	F-W-SW1	Total/NA	Solid	8015 NM	
890-4554-10	F-W-SW2	Total/NA	Solid	8015 NM	
890-4554-11	F-S-SW1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 51904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-1	F-FS01	Soluble	Solid	DI Leach	
890-4554-2	F-FS05	Soluble	Solid	DI Leach	
890-4554-3	F-FS02	Soluble	Solid	DI Leach	
890-4554-4	F-FS03	Soluble	Solid	DI Leach	
890-4554-5	F-FS04	Soluble	Solid	DI Leach	
890-4554-6	F-N-SW1	Soluble	Solid	DI Leach	
890-4554-7	F-E-SW1	Soluble	Solid	DI Leach	
890-4554-8	F-E-SW2	Soluble	Solid	DI Leach	
890-4554-9	F-W-SW1	Soluble	Solid	DI Leach	
890-4554-10	F-W-SW2	Soluble	Solid	DI Leach	
890-4554-11	F-S-SW1	Soluble	Solid	DI Leach	
MB 880-51904/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51904/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51904/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4554-8 MS	F-E-SW2	Soluble	Solid	DI Leach	
890-4554-8 MSD	F-E-SW2	Soluble	Solid	DI Leach	

Analysis Batch: 52044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-1	F-FS01	Soluble	Solid	300.0	51904
890-4554-2	F-FS05	Soluble	Solid	300.0	51904
890-4554-3	F-FS02	Soluble	Solid	300.0	51904
890-4554-4	F-FS03	Soluble	Solid	300.0	51904
890-4554-5	F-FS04	Soluble	Solid	300.0	51904
890-4554-6	F-N-SW1	Soluble	Solid	300.0	51904
890-4554-7	F-E-SW1	Soluble	Solid	300.0	51904
890-4554-8	F-E-SW2	Soluble	Solid	300.0	51904
890-4554-9	F-W-SW1	Soluble	Solid	300.0	51904
890-4554-10	F-W-SW2	Soluble	Solid	300.0	51904
890-4554-11	F-S-SW1	Soluble	Solid	300.0	51904
MB 880-51904/1-A	Method Blank	Soluble	Solid	300.0	51904
LCS 880-51904/2-A	Lab Control Sample	Soluble	Solid	300.0	51904
LCSD 880-51904/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51904
890-4554-8 MS	F-E-SW2	Soluble	Solid	300.0	51904
890-4554-8 MSD	F-E-SW2	Soluble	Solid	300.0	51904

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4554-1
 SDG: KH227027

Client Sample ID: F-FS01

Lab Sample ID: 890-4554-1

Date Collected: 04/20/23 11:10

Matrix: Solid

Date Received: 04/20/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/25/23 23:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51933	04/25/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51837	04/24/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51822	04/24/23 17:43	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 12:40	SMC	EET MID

Client Sample ID: F-FS05

Lab Sample ID: 890-4554-2

Date Collected: 04/20/23 11:30

Matrix: Solid

Date Received: 04/20/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/25/23 23:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51933	04/25/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51837	04/24/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51822	04/24/23 18:06	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 12:44	SMC	EET MID

Client Sample ID: F-FS02

Lab Sample ID: 890-4554-3

Date Collected: 04/20/23 11:43

Matrix: Solid

Date Received: 04/20/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/26/23 00:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51933	04/25/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	51837	04/24/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51822	04/24/23 18:28	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 12:58	SMC	EET MID

Client Sample ID: F-FS03

Lab Sample ID: 890-4554-4

Date Collected: 04/20/23 11:50

Matrix: Solid

Date Received: 04/20/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/26/23 00:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4554-1
 SDG: KH227027

Client Sample ID: F-FS03

Lab Sample ID: 890-4554-4

Date Collected: 04/20/23 11:50

Matrix: Solid

Date Received: 04/20/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			51933	04/25/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51837	04/24/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51822	04/24/23 18:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 13:03	SMC	EET MID

Client Sample ID: F-FS04

Lab Sample ID: 890-4554-5

Date Collected: 04/20/23 11:57

Matrix: Solid

Date Received: 04/20/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/26/23 01:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51933	04/25/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51837	04/24/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51822	04/24/23 19:11	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 13:07	SMC	EET MID

Client Sample ID: F-N-SW1

Lab Sample ID: 890-4554-6

Date Collected: 04/20/23 12:53

Matrix: Solid

Date Received: 04/20/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/26/23 02:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51933	04/25/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	51837	04/24/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51822	04/25/23 06:47	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 13:12	SMC	EET MID

Client Sample ID: F-E-SW1

Lab Sample ID: 890-4554-7

Date Collected: 04/20/23 12:53

Matrix: Solid

Date Received: 04/20/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/26/23 02:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51933	04/25/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51837	04/24/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51822	04/25/23 07:09	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4554-1
 SDG: KH227027

Client Sample ID: F-E-SW1

Lab Sample ID: 890-4554-7

Date Collected: 04/20/23 12:53

Matrix: Solid

Date Received: 04/20/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 13:16	SMC	EET MID

Client Sample ID: F-E-SW2

Lab Sample ID: 890-4554-8

Date Collected: 04/20/23 13:07

Matrix: Solid

Date Received: 04/20/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/26/23 03:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51933	04/25/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51837	04/24/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51822	04/25/23 07:31	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 13:21	SMC	EET MID

Client Sample ID: F-W-SW1

Lab Sample ID: 890-4554-9

Date Collected: 04/20/23 13:09

Matrix: Solid

Date Received: 04/20/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/26/23 03:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51933	04/25/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51837	04/24/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51822	04/25/23 07:52	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 13:34	SMC	EET MID

Client Sample ID: F-W-SW2

Lab Sample ID: 890-4554-10

Date Collected: 04/20/23 13:15

Matrix: Solid

Date Received: 04/20/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/26/23 03:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51933	04/25/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51837	04/24/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51822	04/25/23 08:14	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 13:39	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4554-1
 SDG: KH227027

Client Sample ID: F-S-SW1
Date Collected: 04/20/23 13:19
Date Received: 04/20/23 14:40

Lab Sample ID: 890-4554-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/26/23 04:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51933	04/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51848	04/24/23 12:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51824	04/24/23 16:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 13:53	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4554-1
SDG: KH227027

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4554-1
SDG: KH227027

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4554-1
SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4554-1	F-FS01	Solid	04/20/23 11:10	04/20/23 14:40	2'
890-4554-2	F-FS05	Solid	04/20/23 11:30	04/20/23 14:40	2'
890-4554-3	F-FS02	Solid	04/20/23 11:43	04/20/23 14:40	2'
890-4554-4	F-FS03	Solid	04/20/23 11:50	04/20/23 14:40	2'
890-4554-5	F-FS04	Solid	04/20/23 11:57	04/20/23 14:40	2'
890-4554-6	F-N-SW1	Solid	04/20/23 12:53	04/20/23 14:40	0-2
890-4554-7	F-E-SW1	Solid	04/20/23 12:53	04/20/23 14:40	0-2
890-4554-8	F-E-SW2	Solid	04/20/23 13:07	04/20/23 14:40	0-2
890-4554-9	F-W-SW1	Solid	04/20/23 13:09	04/20/23 14:40	0-2
890-4554-10	F-W-SW2	Solid	04/20/23 13:15	04/20/23 14:40	0-2
890-4554-11	F-S-SW1	Solid	04/20/23 13:19	04/20/23 14:40	0-2

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Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager: Joe Gunder Bill to: (if different)

Company Name: Turner Construction Company Name:

Address: 24518 W. Parice Address:

City, State ZIP: Carlsbad, NM 88220 City, State ZIP:

Phone: _____ Email: _____

Program: UST/PST PRP Brownfields RRC Superfund

State of Project: _____

Reporting: Level II Level III PST/UST TRRP Level IV

Deliverables: EDD ADAPT Other: _____

Project Name: Mobility Turn Around Routine Rush

Project Number: KH2278 27 Due Date: _____

Project Location: Baldy Mt TAT starts the day received by the lab, if received by 4:30pm

Sampler's Name: Baldy Mt

P.O. #: _____

SAMPLE RECEIPT

Samples Received Intact: Yes No Thermometer ID: Turnover Wet Ice: Yes No

Cooler Custody Seals: Yes No Correction Factor: _____

Sample Custody Seals: Yes No Temperature Reading: 11.0

Total Containers: _____ Corrected Temperature: 11.0

Parameters: Chloride EPA 300, PH (8015), BTEX (8021B)

ANALYSIS REQUEST

Barcode: 890-4554 Chain of Custody

Preservative Codes: None: NO, DI Water: H₂O, Cool: Cool, MeOH: Me, HCL: HC, HNO₃: HN, H₂SO₄: H₂, NaOH: Na, H₃PO₄: HP, NaHSO₄: NABS, Na₂O₃: NaSO₃, Zn Acetate+NaOH: Zn, NaOH+Ascorbic Acid: SARC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont
F - FS01	S	4/20	11:10	2'	C	1
F - FS05			11:30			1
F - FS02			11:43			1
F - FS03			11:50			1
F - FS04			11:57			1
F - N-SW1			12:53			1
F - E-SW1			1:07			1
F - W-SW1			1:09			1
F - W-SW2			1:15			1

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature) Baldy Mt Received by: (Signature) Joe Gunder Date/Time: 4.20.23 1440



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

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Page 2 of 2

Project Manager: Joe Guisasa Bill to: (if different)
Company Name: Texasant Company Name:
Address: 4518 W Purce Address:
City, State ZIP: Carlsbad NM 88220 City, State ZIP:
Phone: _____ Email: _____

Program: UST/PST PRP Brownfields RRC Superfund
State of Project: _____
Reporting: Level II Level III PST/UST TRRP Level IV
Deliverables: EDD ADAPT Other: _____

Project Name: Malden Turn Around Rush
Project Number: KH222022 Due Date: _____
Project Location: Bobby Miller TAT starts the day received by the lab, if received by 4:30pm
Sampler's Name: Bobby Miller
P O #: _____
SAMPLE RECEIPT Temp Blank: Yes No Wet/Leak Yes No
Samples Received Intact: Yes No Thermometer/D: _____
Cooler Custody Seals: Yes No Correction Factor: _____
Sample Custody Seals: Yes No Temperature Reading: _____
Total Containers: _____ Corrected Temperature: _____

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters		Preservative Codes	Sample Comments
							Chloride	300		
<u>F-5-SW1</u>	<u>S</u>	<u>4/20</u>	<u>1:19:02</u>	<u>1</u>	<u>C</u>	<u>1</u>	<u>Chloride</u>	<u>300</u>	<u>None: NO</u>	<u>DI Water: H₂O</u>
									<u>MeOH: Me</u>	
									<u>HCL: HC</u>	<u>HNO₃: HN</u>
									<u>H₂SO₄: H₂</u>	<u>NaOH: Na</u>
									<u>H₃PO₄: HP</u>	
									<u>NaHSO₄: NABIS</u>	
									<u>Na₂S₂O₃: NASO₃</u>	
									<u>Zn Acetate+NaOH: Zn</u>	
									<u>NaOH+Ascorbic Acid: SAPC</u>	

Total 2007 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Pb Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>Bobby Miller</u>	<u>Joe Guisasa</u>	<u>4:30:23</u>			

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4554-1

SDG Number: KH227027

Login Number: 4554

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4554-1

SDG Number: KH227027

Login Number: 4554

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 04/24/23 09:11 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
 Terracon Consulting Eng & Scientists
 5847 50th St
 Lubbock, Texas 79424

Generated 8/7/2023 1:31:09 PM Revision 1

JOB DESCRIPTION

Mobley
 SDG NUMBER KH227027

JOB NUMBER

890-4988-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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8/7/2023 1:31:09 PM
Revision 1

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

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Eurofins Carlsbad

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory


· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Laboratory Job ID: 890-4988-1
SDG: KH227027

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4988-1
SDG: KH227027

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4988-1
SDG: KH227027

Job ID: 890-4988-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4988-1

REVISION

The report being provided is a revision of the original report sent on 8/7/2023. The report (revision 1) is being revised due to Per client email, requesting project ID correction.

Receipt

The samples were received on 7/24/2023 4:48 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 11.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: W-SW-05.1 (890-4988-1), FS-15.1 (890-4988-2), FS-10.1 (890-4988-3), W-SW-04.1 (890-4988-4), FS-09.1 (890-4988-5), FS-08.1 (890-4988-6) and W-SW-03.1 (890-4988-7).

GC VOA

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-58791 and analytical batch 880-58782 recovered outside control limits for the following analytes: Ethylbenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58782 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-58782/33), (CCV 880-58782/51) and (CCV 880-58782/64).

Method 8021B: Surrogate recovery for the following samples were outside control limits: W-SW-05.1 (890-4988-1), FS-15.1 (890-4988-2), FS-10.1 (890-4988-3), W-SW-04.1 (890-4988-4), FS-09.1 (890-4988-5), FS-08.1 (890-4988-6), W-SW-03.1 (890-4988-7), (LCS 880-58791/1-A), (LCSD 880-58791/2-A), (880-31081-A-8-D), (880-31081-A-8-B MS) and (880-31081-A-8-C MSD). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: MobleyJob ID: 890-4988-1
SDG: KH227027

Client Sample ID: W-SW-05.1

Lab Sample ID: 890-4988-1

Date Collected: 07/24/23 13:50

Matrix: Solid

Date Received: 07/24/23 16:48

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 10:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 10:42	1
Ethylbenzene	<0.00200	U **	0.00200		mg/Kg		07/29/23 16:20	07/30/23 10:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/29/23 16:20	07/30/23 10:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 10:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/29/23 16:20	07/30/23 10:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130	07/29/23 16:20	07/30/23 10:42	1
1,4-Difluorobenzene (Surr)	80		70 - 130	07/29/23 16:20	07/30/23 10:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/31/23 14:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			08/07/23 09:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		08/03/23 09:19	08/04/23 20:51	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		08/03/23 09:19	08/04/23 20:51	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		08/03/23 09:19	08/04/23 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	08/03/23 09:19	08/04/23 20:51	1
o-Terphenyl	109		70 - 130	08/03/23 09:19	08/04/23 20:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	759		50.5		mg/Kg			07/27/23 20:44	10

Client Sample ID: FS-15.1

Lab Sample ID: 890-4988-2

Date Collected: 07/24/23 13:55

Matrix: Solid

Date Received: 07/24/23 16:48

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/29/23 16:20	07/30/23 11:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/29/23 16:20	07/30/23 11:09	1
Ethylbenzene	<0.00201	U **	0.00201		mg/Kg		07/29/23 16:20	07/30/23 11:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/29/23 16:20	07/30/23 11:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/29/23 16:20	07/30/23 11:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/29/23 16:20	07/30/23 11:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130	07/29/23 16:20	07/30/23 11:09	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: MobleyJob ID: 890-4988-1
SDG: KH227027

Client Sample ID: FS-15.1

Lab Sample ID: 890-4988-2

Date Collected: 07/24/23 13:55

Matrix: Solid

Date Received: 07/24/23 16:48

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	86		70 - 130	07/29/23 16:20	07/30/23 11:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/31/23 14:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/07/23 09:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/23 09:19	08/04/23 21:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/23 09:19	08/04/23 21:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/23 09:19	08/04/23 21:14	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	95		70 - 130	08/03/23 09:19	08/04/23 21:14	1			
o-Terphenyl	103		70 - 130	08/03/23 09:19	08/04/23 21:14	1			

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	612		50.3		mg/Kg			07/27/23 20:51	10

Client Sample ID: FS-10.1

Lab Sample ID: 890-4988-3

Date Collected: 07/24/23 14:47

Matrix: Solid

Date Received: 07/24/23 16:48

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/29/23 16:20	07/30/23 11:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/29/23 16:20	07/30/23 11:35	1
Ethylbenzene	<0.00202	U **	0.00202		mg/Kg		07/29/23 16:20	07/30/23 11:35	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/29/23 16:20	07/30/23 11:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/29/23 16:20	07/30/23 11:35	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/29/23 16:20	07/30/23 11:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	176	S1+	70 - 130	07/29/23 16:20	07/30/23 11:35	1
1,4-Difluorobenzene (Surr)	91		70 - 130	07/29/23 16:20	07/30/23 11:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/31/23 14:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			08/07/23 09:40	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: MobleyJob ID: 890-4988-1
SDG: KH227027

Client Sample ID: FS-10.1

Lab Sample ID: 890-4988-3

Date Collected: 07/24/23 14:47

Matrix: Solid

Date Received: 07/24/23 16:48

Sample Depth: 5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		08/03/23 09:19	08/04/23 21:37	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		08/03/23 09:19	08/04/23 21:37	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/03/23 09:19	08/04/23 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				08/03/23 09:19	08/04/23 21:37	1
o-Terphenyl	113		70 - 130				08/03/23 09:19	08/04/23 21:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		5.02		mg/Kg			07/27/23 21:12	1

Client Sample ID: W-SW-04.1

Lab Sample ID: 890-4988-4

Date Collected: 07/24/23 14:50

Matrix: Solid

Date Received: 07/24/23 16:48

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/29/23 16:20	07/30/23 12:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/29/23 16:20	07/30/23 12:01	1
Ethylbenzene	<0.00199	U *	0.00199		mg/Kg		07/29/23 16:20	07/30/23 12:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/29/23 16:20	07/30/23 12:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/29/23 16:20	07/30/23 12:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/29/23 16:20	07/30/23 12:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	181	S1+	70 - 130				07/29/23 16:20	07/30/23 12:01	1
1,4-Difluorobenzene (Surr)	98		70 - 130				07/29/23 16:20	07/30/23 12:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/31/23 14:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/07/23 09:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/03/23 09:19	08/04/23 21:59	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/03/23 09:19	08/04/23 21:59	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/03/23 09:19	08/04/23 21:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				08/03/23 09:19	08/04/23 21:59	1
o-Terphenyl	106		70 - 130				08/03/23 09:19	08/04/23 21:59	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4988-1
SDG: KH227027

Client Sample ID: W-SW-04.1

Lab Sample ID: 890-4988-4

Date Collected: 07/24/23 14:50

Matrix: Solid

Date Received: 07/24/23 16:48

Sample Depth: 0 - 5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	981		50.0		mg/Kg			07/27/23 21:19	10

Client Sample ID: FS-09.1

Lab Sample ID: 890-4988-5

Date Collected: 07/24/23 15:06

Matrix: Solid

Date Received: 07/24/23 16:48

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 12:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 12:27	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		07/29/23 16:20	07/30/23 12:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/29/23 16:20	07/30/23 12:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 12:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/29/23 16:20	07/30/23 12:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	177	S1+	70 - 130				07/29/23 16:20	07/30/23 12:27	1
1,4-Difluorobenzene (Surr)	85		70 - 130				07/29/23 16:20	07/30/23 12:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/31/23 14:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/07/23 09:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/23 09:19	08/04/23 22:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/23 09:19	08/04/23 22:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/23 09:19	08/04/23 22:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				08/03/23 09:19	08/04/23 22:21	1
o-Terphenyl	116		70 - 130				08/03/23 09:19	08/04/23 22:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	249		4.98		mg/Kg			07/27/23 21:25	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: MobleyJob ID: 890-4988-1
SDG: KH227027

Client Sample ID: FS-08.1

Lab Sample ID: 890-4988-6

Date Collected: 07/24/23 15:20

Matrix: Solid

Date Received: 07/24/23 16:48

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/29/23 16:20	07/30/23 14:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/29/23 16:20	07/30/23 14:12	1
Ethylbenzene	<0.00201	U **	0.00201		mg/Kg		07/29/23 16:20	07/30/23 14:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/29/23 16:20	07/30/23 14:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/29/23 16:20	07/30/23 14:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/29/23 16:20	07/30/23 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130	07/29/23 16:20	07/30/23 14:12	1
1,4-Difluorobenzene (Surr)	79		70 - 130	07/29/23 16:20	07/30/23 14:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/31/23 14:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/07/23 09:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/03/23 09:19	08/04/23 22:43	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/03/23 09:19	08/04/23 22:43	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/03/23 09:19	08/04/23 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	08/03/23 09:19	08/04/23 22:43	1
o-Terphenyl	107		70 - 130	08/03/23 09:19	08/04/23 22:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	282		4.96		mg/Kg			07/27/23 21:32	1

Client Sample ID: W-SW-03.1

Lab Sample ID: 890-4988-7

Date Collected: 07/24/23 15:25

Matrix: Solid

Date Received: 07/24/23 16:48

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/29/23 16:20	07/30/23 14:38	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/29/23 16:20	07/30/23 14:38	1
Ethylbenzene	<0.00198	U **	0.00198		mg/Kg		07/29/23 16:20	07/30/23 14:38	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/29/23 16:20	07/30/23 14:38	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/29/23 16:20	07/30/23 14:38	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/29/23 16:20	07/30/23 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130	07/29/23 16:20	07/30/23 14:38	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4988-1
 SDG: KH227027

Client Sample ID: W-SW-03.1

Lab Sample ID: 890-4988-7

Date Collected: 07/24/23 15:25

Matrix: Solid

Date Received: 07/24/23 16:48

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85		70 - 130	07/29/23 16:20	07/30/23 14:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/31/23 14:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/07/23 09:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/03/23 09:19	08/04/23 23:05	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/03/23 09:19	08/04/23 23:05	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/03/23 09:19	08/04/23 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	08/03/23 09:19	08/04/23 23:05	1
o-Terphenyl	111		70 - 130	08/03/23 09:19	08/04/23 23:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	259		5.02		mg/Kg			07/27/23 21:39	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4988-1
SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-4988-1	W-SW-05.1	160 S1+	80
890-4988-2	FS-15.1	167 S1+	86
890-4988-3	FS-10.1	176 S1+	91
890-4988-4	W-SW-04.1	181 S1+	98
890-4988-5	FS-09.1	177 S1+	85
890-4988-6	FS-08.1	152 S1+	79
890-4988-7	W-SW-03.1	178 S1+	85
LCS 880-58791/1-A	Lab Control Sample	158 S1+	106
LCSD 880-58791/2-A	Lab Control Sample Dup	142 S1+	87
MB 880-58735/5-A	Method Blank	79	82
MB 880-58791/5-A	Method Blank	90	78

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-4988-1	W-SW-05.1	99	109
890-4988-2	FS-15.1	95	103
890-4988-3	FS-10.1	103	113
890-4988-4	W-SW-04.1	98	106
890-4988-5	FS-09.1	106	116
890-4988-6	FS-08.1	96	107
890-4988-7	W-SW-03.1	100	111
LCS 880-59184/2-A	Lab Control Sample	94	96
LCSD 880-59184/3-A	Lab Control Sample Dup	84	84
MB 880-59184/1-A	Method Blank	81	90

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4988-1
 SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58735/5-A
 Matrix: Solid
 Analysis Batch: 58782

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 58735

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/23 13:24	07/29/23 18:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/28/23 13:24	07/29/23 18:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/28/23 13:24	07/29/23 18:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/28/23 13:24	07/29/23 18:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/28/23 13:24	07/29/23 18:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/28/23 13:24	07/29/23 18:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	07/28/23 13:24	07/29/23 18:51	1
1,4-Difluorobenzene (Surr)	82		70 - 130	07/28/23 13:24	07/29/23 18:51	1

Lab Sample ID: MB 880-58791/5-A
 Matrix: Solid
 Analysis Batch: 58782

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 58791

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 08:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 08:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 08:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/29/23 16:20	07/30/23 08:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 08:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/29/23 16:20	07/30/23 08:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	07/29/23 16:20	07/30/23 08:05	1
1,4-Difluorobenzene (Surr)	78		70 - 130	07/29/23 16:20	07/30/23 08:05	1

Lab Sample ID: LCS 880-58791/1-A
 Matrix: Solid
 Analysis Batch: 58782

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 58791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1235		mg/Kg		124	70 - 130
Toluene	0.100	0.1250		mg/Kg		125	70 - 130
Ethylbenzene	0.100	0.1404	*+	mg/Kg		140	70 - 130
m-Xylene & p-Xylene	0.200	0.2537		mg/Kg		127	70 - 130
o-Xylene	0.100	0.1222		mg/Kg		122	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-58791/2-A
 Matrix: Solid
 Analysis Batch: 58782

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 58791

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1147		mg/Kg		115	70 - 130	7	35

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4988-1
 SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-58791/2-A
 Matrix: Solid
 Analysis Batch: 58782

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 58791

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1105		mg/Kg		111	70 - 130	12	35
Ethylbenzene	0.100	0.1178		mg/Kg		118	70 - 130	18	35
m-Xylene & p-Xylene	0.200	0.2046		mg/Kg		102	70 - 130	21	35
o-Xylene	0.100	0.1154		mg/Kg		115	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-59184/1-A
 Matrix: Solid
 Analysis Batch: 59287

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 59184

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/23 09:19	08/04/23 11:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/23 09:19	08/04/23 11:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/23 09:19	08/04/23 11:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	08/03/23 09:19	08/04/23 11:21	1
o-Terphenyl	90		70 - 130	08/03/23 09:19	08/04/23 11:21	1

Lab Sample ID: LCS 880-59184/2-A
 Matrix: Solid
 Analysis Batch: 59287

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 59184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	907.0		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	883.8		mg/Kg		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: LCSD 880-59184/3-A
 Matrix: Solid
 Analysis Batch: 59287

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 59184

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	805.7		mg/Kg		81	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	904.2		mg/Kg		90	70 - 130	2	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4988-1
 SDG: KH227027

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-59184/3-A
 Matrix: Solid
 Analysis Batch: 59287

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 59184

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	84		70 - 130
o-Terphenyl	84		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58547/1-A
 Matrix: Solid
 Analysis Batch: 58578

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/27/23 19:50	1

Lab Sample ID: LCS 880-58547/2-A
 Matrix: Solid
 Analysis Batch: 58578

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	240.1		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-58547/3-A
 Matrix: Solid
 Analysis Batch: 58578

Client Sample ID: Lab Control Sample Dup
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	241.0		mg/Kg		96	90 - 110	0	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: MobleyJob ID: 890-4988-1
SDG: KH227027

GC VOA

Prep Batch: 58735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-58735/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 58782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4988-1	W-SW-05.1	Total/NA	Solid	8021B	58791
890-4988-2	FS-15.1	Total/NA	Solid	8021B	58791
890-4988-3	FS-10.1	Total/NA	Solid	8021B	58791
890-4988-4	W-SW-04.1	Total/NA	Solid	8021B	58791
890-4988-5	FS-09.1	Total/NA	Solid	8021B	58791
890-4988-6	FS-08.1	Total/NA	Solid	8021B	58791
890-4988-7	W-SW-03.1	Total/NA	Solid	8021B	58791
MB 880-58735/5-A	Method Blank	Total/NA	Solid	8021B	58735
MB 880-58791/5-A	Method Blank	Total/NA	Solid	8021B	58791
LCS 880-58791/1-A	Lab Control Sample	Total/NA	Solid	8021B	58791
LCSD 880-58791/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58791

Prep Batch: 58791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4988-1	W-SW-05.1	Total/NA	Solid	5035	
890-4988-2	FS-15.1	Total/NA	Solid	5035	
890-4988-3	FS-10.1	Total/NA	Solid	5035	
890-4988-4	W-SW-04.1	Total/NA	Solid	5035	
890-4988-5	FS-09.1	Total/NA	Solid	5035	
890-4988-6	FS-08.1	Total/NA	Solid	5035	
890-4988-7	W-SW-03.1	Total/NA	Solid	5035	
MB 880-58791/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58791/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58791/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 58873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4988-1	W-SW-05.1	Total/NA	Solid	Total BTEX	
890-4988-2	FS-15.1	Total/NA	Solid	Total BTEX	
890-4988-3	FS-10.1	Total/NA	Solid	Total BTEX	
890-4988-4	W-SW-04.1	Total/NA	Solid	Total BTEX	
890-4988-5	FS-09.1	Total/NA	Solid	Total BTEX	
890-4988-6	FS-08.1	Total/NA	Solid	Total BTEX	
890-4988-7	W-SW-03.1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 59184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4988-1	W-SW-05.1	Total/NA	Solid	8015NM Prep	
890-4988-2	FS-15.1	Total/NA	Solid	8015NM Prep	
890-4988-3	FS-10.1	Total/NA	Solid	8015NM Prep	
890-4988-4	W-SW-04.1	Total/NA	Solid	8015NM Prep	
890-4988-5	FS-09.1	Total/NA	Solid	8015NM Prep	
890-4988-6	FS-08.1	Total/NA	Solid	8015NM Prep	
890-4988-7	W-SW-03.1	Total/NA	Solid	8015NM Prep	
MB 880-59184/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: MobleyJob ID: 890-4988-1
SDG: KH227027

GC Semi VOA (Continued)

Prep Batch: 59184 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-59184/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59184/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 59287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4988-1	W-SW-05.1	Total/NA	Solid	8015B NM	59184
890-4988-2	FS-15.1	Total/NA	Solid	8015B NM	59184
890-4988-3	FS-10.1	Total/NA	Solid	8015B NM	59184
890-4988-4	W-SW-04.1	Total/NA	Solid	8015B NM	59184
890-4988-5	FS-09.1	Total/NA	Solid	8015B NM	59184
890-4988-6	FS-08.1	Total/NA	Solid	8015B NM	59184
890-4988-7	W-SW-03.1	Total/NA	Solid	8015B NM	59184
MB 880-59184/1-A	Method Blank	Total/NA	Solid	8015B NM	59184
LCS 880-59184/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59184
LCSD 880-59184/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59184

Analysis Batch: 59454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4988-1	W-SW-05.1	Total/NA	Solid	8015 NM	
890-4988-2	FS-15.1	Total/NA	Solid	8015 NM	
890-4988-3	FS-10.1	Total/NA	Solid	8015 NM	
890-4988-4	W-SW-04.1	Total/NA	Solid	8015 NM	
890-4988-5	FS-09.1	Total/NA	Solid	8015 NM	
890-4988-6	FS-08.1	Total/NA	Solid	8015 NM	
890-4988-7	W-SW-03.1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 58547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4988-1	W-SW-05.1	Soluble	Solid	DI Leach	
890-4988-2	FS-15.1	Soluble	Solid	DI Leach	
890-4988-3	FS-10.1	Soluble	Solid	DI Leach	
890-4988-4	W-SW-04.1	Soluble	Solid	DI Leach	
890-4988-5	FS-09.1	Soluble	Solid	DI Leach	
890-4988-6	FS-08.1	Soluble	Solid	DI Leach	
890-4988-7	W-SW-03.1	Soluble	Solid	DI Leach	
MB 880-58547/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58547/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58547/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 58578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4988-1	W-SW-05.1	Soluble	Solid	300.0	58547
890-4988-2	FS-15.1	Soluble	Solid	300.0	58547
890-4988-3	FS-10.1	Soluble	Solid	300.0	58547
890-4988-4	W-SW-04.1	Soluble	Solid	300.0	58547
890-4988-5	FS-09.1	Soluble	Solid	300.0	58547
890-4988-6	FS-08.1	Soluble	Solid	300.0	58547
890-4988-7	W-SW-03.1	Soluble	Solid	300.0	58547
MB 880-58547/1-A	Method Blank	Soluble	Solid	300.0	58547

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4988-1
SDG: KH227027

HPLC/IC (Continued)

Analysis Batch: 58578 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-58547/2-A	Lab Control Sample	Soluble	Solid	300.0	58547
LCSD 880-58547/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58547

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4988-1
 SDG: KH227027

Client Sample ID: W-SW-05.1

Lab Sample ID: 890-4988-1

Date Collected: 07/24/23 13:50

Matrix: Solid

Date Received: 07/24/23 16:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	58791	07/29/23 16:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/30/23 10:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58873	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59454	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	59184	08/03/23 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/04/23 20:51	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	58547	07/26/23 09:52	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	58578	07/27/23 20:44	CH	EET MID

Client Sample ID: FS-15.1

Lab Sample ID: 890-4988-2

Date Collected: 07/24/23 13:55

Matrix: Solid

Date Received: 07/24/23 16:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	58791	07/29/23 16:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/30/23 11:09	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58873	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59454	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	59184	08/03/23 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/04/23 21:14	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	58547	07/26/23 09:52	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	58578	07/27/23 20:51	CH	EET MID

Client Sample ID: FS-10.1

Lab Sample ID: 890-4988-3

Date Collected: 07/24/23 14:47

Matrix: Solid

Date Received: 07/24/23 16:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	58791	07/29/23 16:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/30/23 11:35	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58873	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59454	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	59184	08/03/23 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/04/23 21:37	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	58547	07/26/23 09:52	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58578	07/27/23 21:12	CH	EET MID

Client Sample ID: W-SW-04.1

Lab Sample ID: 890-4988-4

Date Collected: 07/24/23 14:50

Matrix: Solid

Date Received: 07/24/23 16:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	58791	07/29/23 16:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/30/23 12:01	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58873	07/31/23 14:05	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4988-1
 SDG: KH227027

Client Sample ID: W-SW-04.1

Lab Sample ID: 890-4988-4

Date Collected: 07/24/23 14:50

Matrix: Solid

Date Received: 07/24/23 16:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			59454	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	59184	08/03/23 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/04/23 21:59	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58547	07/26/23 09:52	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	58578	07/27/23 21:19	CH	EET MID

Client Sample ID: FS-09.1

Lab Sample ID: 890-4988-5

Date Collected: 07/24/23 15:06

Matrix: Solid

Date Received: 07/24/23 16:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	58791	07/29/23 16:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/30/23 12:27	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58873	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59454	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	59184	08/03/23 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/04/23 22:21	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58547	07/26/23 09:52	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58578	07/27/23 21:25	CH	EET MID

Client Sample ID: FS-08.1

Lab Sample ID: 890-4988-6

Date Collected: 07/24/23 15:20

Matrix: Solid

Date Received: 07/24/23 16:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	58791	07/29/23 16:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/30/23 14:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58873	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59454	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	59184	08/03/23 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/04/23 22:43	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58547	07/26/23 09:52	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58578	07/27/23 21:32	CH	EET MID

Client Sample ID: W-SW-03.1

Lab Sample ID: 890-4988-7

Date Collected: 07/24/23 15:25

Matrix: Solid

Date Received: 07/24/23 16:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	58791	07/29/23 16:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/30/23 14:38	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58873	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59454	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	59184	08/03/23 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/04/23 23:05	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4988-1
SDG: KH227027

Client Sample ID: W-SW-03.1

Lab Sample ID: 890-4988-7

Date Collected: 07/24/23 15:25

Matrix: Solid

Date Received: 07/24/23 16:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	58547	07/26/23 09:52	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58578	07/27/23 21:39	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4988-1
SDG: KH227027

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4988-1
SDG: KH227027

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4988-1
SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4988-1	W-SW-05.1	Solid	07/24/23 13:50	07/24/23 16:48	0 - 5
890-4988-2	FS-15.1	Solid	07/24/23 13:55	07/24/23 16:48	5
890-4988-3	FS-10.1	Solid	07/24/23 14:47	07/24/23 16:48	5
890-4988-4	W-SW-04.1	Solid	07/24/23 14:50	07/24/23 16:48	0 - 5
890-4988-5	FS-09.1	Solid	07/24/23 15:06	07/24/23 16:48	5
890-4988-6	FS-08.1	Solid	07/24/23 15:20	07/24/23 16:48	5
890-4988-7	W-SW-03.1	Solid	07/24/23 15:25	07/24/23 16:48	0 - 5

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Environment Testing Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager: Joe Guenther Bill to: (if different)

Company Name: Peracore Company Name:

Address: 4502 W Pacer St. Address:

City, State ZIP: Carlsbad, NM 88220 City, State ZIP:

Phone: _____ Email: _____

Program: UST/PST PRP Brownfields RRC Superfund

State of Project: _____

Reporting: Level II Level III PST/UST TRRP Level IV

Deliverables: EDD ADAPT Other: _____

Project Name: Wobley Turn Around Routine Rush

Project Number: KH222027 Due Date: _____

Project Location: Eddy Miller TAT starts the day received by the lab, if received by 4:30pm

Sampler's Name: Bucky Miller Wet Ice: Yes No

PO #: _____ Thermometer ID: 184007

SAMPLE RECEIPT Temp Blank: Yes No Correction Factor: -0.2

Samples Received Intact: Yes No Temperature Reading: 11.2

Cooler Custody Seals: Yes No N/A Corrected Temperature: 11.0

Sample Custody Seals: Yes No N/A

Total Containers: _____

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters														
							<u>Chloride (EPA 300)</u> <u>BTEX (802 B)</u> <u>PPH (8015)</u>														
W-SW-05.1	S	7/24	1:50	0-5'	G	1															
FS-15.1	S		1:55	5'	G	1															
FS-10.1	S		2:47	5'	G	1															
W-SW-04.1	S		2:50	0-5'	G	1															
FS-09.1	S		3:06	5'	G	1															
FS-08.1	S		3:20	5'	G	1															
W-SW-03.1	S		3:25	0-5'	G	1															

ANALYSIS REQUEST

Preservative Codes: None: NO, DI Water: H₂O, Cool: Cool, MeOH: Me, HCL: HC, HNO: HN, H₂SO: H₂, H₃PO: HP, NaHSO: NABIS, Na₂S₂O₃: NASO, Zn Acetate+NaOH: Zn, NaOH+Ascorbic Acid: SAPC

Barcode: 890-4988 Chain of Custody

Total 2007 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>B Miller</u>	<u>Joe Gu</u>	7-21-23 11:48			

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4988-1

SDG Number: KH227027

Login Number: 4988
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4988-1

SDG Number: KH227027

Login Number: 4988

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 07/26/23 10:54 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
 Terracon Consulting Eng & Scientists
 5847 50th St
 Lubbock, Texas 79424
 Generated 8/7/2023 2:39:51 PM

JOB DESCRIPTION

Mobley
 SDG NUMBER KH227027

JOB NUMBER

890-4990-1



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
8/7/2023 2:39:51 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

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Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Laboratory Job ID: 890-4990-1
SDG: KH227027

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4990-1
SDG: KH227027

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4990-1
SDG: KH227027

Job ID: 890-4990-1

Laboratory: Eurofins Carlsbad**Narrative**

**Job Narrative
890-4990-1****Receipt**

The samples were received on 7/25/2023 1:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS-07.1 (890-4990-1), FS-06.1 (890-4990-2) and FS-05.1 (890-4990-3).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS-06.1 (890-4990-2) and FS-05.1 (890-4990-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-59255 and analytical batch 880-59403 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-59403/20) and (CCV 880-59403/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS-06.1 (890-4990-2) and FS-05.1 (890-4990-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-59255 and analytical batch 880-59403 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4990-1
 SDG: KH227027

Client Sample ID: FS-07.1

Lab Sample ID: 890-4990-1

Date Collected: 07/25/23 07:45

Matrix: Solid

Date Received: 07/25/23 13:10

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/31/23 13:57	07/31/23 16:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/31/23 13:57	07/31/23 16:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/31/23 13:57	07/31/23 16:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/31/23 13:57	07/31/23 16:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/31/23 13:57	07/31/23 16:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/31/23 13:57	07/31/23 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	07/31/23 13:57	07/31/23 16:24	1
1,4-Difluorobenzene (Surr)	75		70 - 130	07/31/23 13:57	07/31/23 16:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/01/23 09:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/07/23 14:16	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/03/23 14:00	08/06/23 15:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		08/03/23 14:00	08/06/23 15:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/23 14:00	08/06/23 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	08/03/23 14:00	08/06/23 15:10	1
o-Terphenyl	111		70 - 130	08/03/23 14:00	08/06/23 15:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144		4.97		mg/Kg			07/27/23 22:13	1

Client Sample ID: FS-06.1

Lab Sample ID: 890-4990-2

Date Collected: 07/25/23 08:23

Matrix: Solid

Date Received: 07/25/23 13:10

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/31/23 13:57	07/31/23 16:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/31/23 13:57	07/31/23 16:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/31/23 13:57	07/31/23 16:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/31/23 13:57	07/31/23 16:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/31/23 13:57	07/31/23 16:45	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/31/23 13:57	07/31/23 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	07/31/23 13:57	07/31/23 16:45	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4990-1
 SDG: KH227027

Client Sample ID: FS-06.1

Lab Sample ID: 890-4990-2

Date Collected: 07/25/23 08:23

Matrix: Solid

Date Received: 07/25/23 13:10

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130	07/31/23 13:57	07/31/23 16:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/01/23 09:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/07/23 14:16	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/03/23 14:00	08/06/23 15:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		08/03/23 14:00	08/06/23 15:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/23 14:00	08/06/23 15:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	08/03/23 14:00	08/06/23 15:33	1
o-Terphenyl	128		70 - 130	08/03/23 14:00	08/06/23 15:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	168		4.97		mg/Kg			07/27/23 22:34	1

Client Sample ID: FS-05.1

Lab Sample ID: 890-4990-3

Date Collected: 07/25/23 09:10

Matrix: Solid

Date Received: 07/25/23 13:10

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/31/23 13:57	07/31/23 17:06	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/31/23 13:57	07/31/23 17:06	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/31/23 13:57	07/31/23 17:06	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/31/23 13:57	07/31/23 17:06	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/31/23 13:57	07/31/23 17:06	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/31/23 13:57	07/31/23 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	07/31/23 13:57	07/31/23 17:06	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130	07/31/23 13:57	07/31/23 17:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/01/23 09:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/07/23 14:16	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4990-1
 SDG: KH227027

Client Sample ID: FS-05.1

Lab Sample ID: 890-4990-3

Date Collected: 07/25/23 09:10

Matrix: Solid

Date Received: 07/25/23 13:10

Sample Depth: 5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/03/23 14:00	08/06/23 15:56	1
Diesel Range Organics (Over C10-C28)	<49.7	U **	49.7		mg/Kg		08/03/23 14:00	08/06/23 15:56	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/03/23 14:00	08/06/23 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	08/03/23 14:00	08/06/23 15:56	1
o-Terphenyl	127		70 - 130	08/03/23 14:00	08/06/23 15:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	492		25.2		mg/Kg			07/27/23 22:41	5

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4990-1
 SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4990-1	FS-07.1	89	75
890-4990-2	FS-06.1	85	67 S1-
890-4990-3	FS-05.1	85	65 S1-
LCS 880-58869/1-A	Lab Control Sample	105	119
LCS 880-58869/2-A	Lab Control Sample Dup	108	111
MB 880-58869/5-A	Method Blank	71	82

Surrogate Legend
 BFB = 4-Bromofluorobenzene (Surr)
 DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4990-1	FS-07.1	119	111
890-4990-2	FS-06.1	139 S1+	128
890-4990-3	FS-05.1	136 S1+	127
MB 880-59255/1-A	Method Blank	156 S1+	154 S1+

Surrogate Legend
 1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4990-1
 SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58869/5-A
 Matrix: Solid
 Analysis Batch: 58801

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 58869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/31/23 11:00	07/31/23 14:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/31/23 11:00	07/31/23 14:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/31/23 11:00	07/31/23 14:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/31/23 11:00	07/31/23 14:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/31/23 11:00	07/31/23 14:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/31/23 11:00	07/31/23 14:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	07/31/23 11:00	07/31/23 14:41	1
1,4-Difluorobenzene (Surr)	82		70 - 130	07/31/23 11:00	07/31/23 14:41	1

Lab Sample ID: LCS 880-58869/1-A
 Matrix: Solid
 Analysis Batch: 58801

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 58869

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09712		mg/Kg		97	70 - 130
Toluene	0.100	0.09649		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1093		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2274		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1110		mg/Kg		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

Lab Sample ID: LCSD 880-58869/2-A
 Matrix: Solid
 Analysis Batch: 58801

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 58869

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09210		mg/Kg		92	70 - 130	5	35
Toluene	0.100	0.09358		mg/Kg		94	70 - 130	3	35
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2224		mg/Kg		111	70 - 130	2	35
o-Xylene	0.100	0.1080		mg/Kg		108	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4990-1
 SDG: KH227027

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-59255/1-A
 Matrix: Solid
 Analysis Batch: 59403

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 59255

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/23 14:00	08/06/23 08:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/23 14:00	08/06/23 08:22	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/23 14:00	08/06/23 08:22	1
Surrogate	MB	MB	Limits		Unit	D	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	156	S1+	70 - 130				08/03/23 14:00	08/06/23 08:22	1
o-Terphenyl	154	S1+	70 - 130				08/03/23 14:00	08/06/23 08:22	1

Lab Sample ID: LCS 880-59255/2-A
 Matrix: Solid
 Analysis Batch: 59403

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 59255

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Diesel Range Organics (Over C10-C28)	1000	1432	*+	mg/Kg		143	70 - 130		

Lab Sample ID: LCSD 880-59255/3-A
 Matrix: Solid
 Analysis Batch: 59403

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 59255

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Diesel Range Organics (Over C10-C28)	1000	1425	*+	mg/Kg		142	70 - 130	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58547/1-A
 Matrix: Solid
 Analysis Batch: 58578

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			07/27/23 19:50	1

Lab Sample ID: LCS 880-58547/2-A
 Matrix: Solid
 Analysis Batch: 58578

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4990-1
SDG: KH227027

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-58547/3-A
Matrix: Solid
Analysis Batch: 58578

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	241.0		mg/Kg		96	90 - 110	0	20

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: MobleyJob ID: 890-4990-1
SDG: KH227027

GC VOA

Analysis Batch: 58801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4990-1	FS-07.1	Total/NA	Solid	8021B	58869
890-4990-2	FS-06.1	Total/NA	Solid	8021B	58869
890-4990-3	FS-05.1	Total/NA	Solid	8021B	58869
MB 880-58869/5-A	Method Blank	Total/NA	Solid	8021B	58869
LCS 880-58869/1-A	Lab Control Sample	Total/NA	Solid	8021B	58869
LCSD 880-58869/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58869

Prep Batch: 58869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4990-1	FS-07.1	Total/NA	Solid	5035	
890-4990-2	FS-06.1	Total/NA	Solid	5035	
890-4990-3	FS-05.1	Total/NA	Solid	5035	
MB 880-58869/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58869/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58869/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 58979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4990-1	FS-07.1	Total/NA	Solid	Total BTEX	
890-4990-2	FS-06.1	Total/NA	Solid	Total BTEX	
890-4990-3	FS-05.1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 59255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4990-1	FS-07.1	Total/NA	Solid	8015NM Prep	
890-4990-2	FS-06.1	Total/NA	Solid	8015NM Prep	
890-4990-3	FS-05.1	Total/NA	Solid	8015NM Prep	
MB 880-59255/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59255/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59255/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 59403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4990-1	FS-07.1	Total/NA	Solid	8015B NM	59255
890-4990-2	FS-06.1	Total/NA	Solid	8015B NM	59255
890-4990-3	FS-05.1	Total/NA	Solid	8015B NM	59255
MB 880-59255/1-A	Method Blank	Total/NA	Solid	8015B NM	59255
LCS 880-59255/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59255
LCSD 880-59255/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59255

Analysis Batch: 59525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4990-1	FS-07.1	Total/NA	Solid	8015 NM	
890-4990-2	FS-06.1	Total/NA	Solid	8015 NM	
890-4990-3	FS-05.1	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4990-1
 SDG: KH227027

HPLC/IC

Leach Batch: 58547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4990-1	FS-07.1	Soluble	Solid	DI Leach	
890-4990-2	FS-06.1	Soluble	Solid	DI Leach	
890-4990-3	FS-05.1	Soluble	Solid	DI Leach	
MB 880-58547/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58547/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58547/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 58578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4990-1	FS-07.1	Soluble	Solid	300.0	58547
890-4990-2	FS-06.1	Soluble	Solid	300.0	58547
890-4990-3	FS-05.1	Soluble	Solid	300.0	58547
MB 880-58547/1-A	Method Blank	Soluble	Solid	300.0	58547
LCS 880-58547/2-A	Lab Control Sample	Soluble	Solid	300.0	58547
LCSD 880-58547/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58547

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-4990-1
 SDG: KH227027

Client Sample ID: FS-07.1

Lab Sample ID: 890-4990-1

Date Collected: 07/25/23 07:45

Matrix: Solid

Date Received: 07/25/23 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	58869	07/31/23 13:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58801	07/31/23 16:24	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58979	08/01/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			59525	08/07/23 14:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	59255	08/03/23 14:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59403	08/06/23 15:10	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58547	07/26/23 09:52	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58578	07/27/23 22:13	CH	EET MID

Client Sample ID: FS-06.1

Lab Sample ID: 890-4990-2

Date Collected: 07/25/23 08:23

Matrix: Solid

Date Received: 07/25/23 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	58869	07/31/23 13:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58801	07/31/23 16:45	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58979	08/01/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			59525	08/07/23 14:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	59255	08/03/23 14:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59403	08/06/23 15:33	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58547	07/26/23 09:52	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58578	07/27/23 22:34	CH	EET MID

Client Sample ID: FS-05.1

Lab Sample ID: 890-4990-3

Date Collected: 07/25/23 09:10

Matrix: Solid

Date Received: 07/25/23 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	58869	07/31/23 13:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58801	07/31/23 17:06	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58979	08/01/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			59525	08/07/23 14:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	59255	08/03/23 14:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59403	08/06/23 15:56	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	58547	07/26/23 09:52	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	58578	07/27/23 22:41	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4990-1
SDG: KH227027

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4990-1
SDG: KH227027

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-4990-1
SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4990-1	FS-07.1	Solid	07/25/23 07:45	07/25/23 13:10	5
890-4990-2	FS-06.1	Solid	07/25/23 08:23	07/25/23 13:10	5
890-4990-3	FS-05.1	Solid	07/25/23 09:10	07/25/23 13:10	5

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Environment Testing
Xenco

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

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Project Manager:	<i>Joe Guadalupe</i>	Bill to: (if different)	
Company Name:	<i>Percaros</i>	Company Name:	
Address:	<i>4502 W Price</i>	Address:	
City, State ZIP:	<i>Carlsbad NM 88720</i>	City, State ZIP:	
Phone:		Email:	

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____

Project Name:	<i>Wobley</i>	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:	<i>KH227827</i>	Due Date:			
Project Location:	<i>Edley Mills</i>	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	<i>Bobby Mills</i>	Well/ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
P.O. #:		Thermometer ID:	<i>1110007</i>		
SAMPLE RECEIPT		Temp Blank:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Parameters	
Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:			
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Temperature Reading:	<i>5.0</i>		
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Corrected Temperature:	<i>5.0</i>		
Total Containers:					



Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes	Sample Comments
<i>ES-07.01</i>	<i>S</i>	<i>7/25</i>	<i>7:45</i>	<i>5'</i>	<i>G</i>	<i>1</i>	<i>chloride (EPA 300)</i>	None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂	
<i>ES-06.01</i>	<i>S</i>		<i>8:23</i>	<i>5'</i>	<i>G</i>	<i>1</i>	<i>BTEX (8021B)</i>	MeOH: Me HNO ₃ : HN NaOH: Na	
<i>ES-05.01</i>	<i>S</i>		<i>9:10</i>	<i>5'</i>	<i>G</i>	<i>1</i>	<i>TPH (8015)</i>	H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SARC	

Total 2007 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>B. Miller</i>	<i>Joe Guadalupe</i>	<i>7.25.23 13:15</i>			

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4990-1

SDG Number: KH227027

Login Number: 4990

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4990-1

SDG Number: KH227027

Login Number: 4990

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 07/26/23 10:54 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
 Terracon Consulting Eng & Scientists
 5847 50th St
 Lubbock, Texas 79424
 Generated 8/28/2023 12:48:26 PM

JOB DESCRIPTION

Mobley
 SDG NUMBER Eddy

JOB NUMBER

890-5139-1



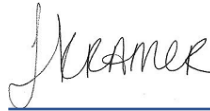
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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8/28/2023 12:48:26 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440



Eurofins Carlsbad

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory


· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Laboratory Job ID: 890-5139-1
SDG: Eddy

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-5139-1
SDG: Eddy

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-5139-1
SDG: Eddy

Job ID: 890-5139-1

Laboratory: Eurofins Carlsbad**Narrative****Job Narrative
890-5139-1****Receipt**

The samples were received on 8/22/2023 8:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-SW-01.1 (890-5139-1) and W-SW-06.1 (890-5139-2).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-61216/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-SW-01.1 (890-5139-1) and W-SW-06.1 (890-5139-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-61009 and analytical batch 880-60956 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60956/31), (CCV 880-60956/47) and (CCV 880-60956/58). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-60956 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-60956/47).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-5139-1
 SDG: Eddy

Client Sample ID: S-SW-01.1

Lab Sample ID: 890-5139-1

Date Collected: 08/21/23 09:15

Matrix: Solid

Date Received: 08/22/23 08:30

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/26/23 18:08	08/27/23 17:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/26/23 18:08	08/27/23 17:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/26/23 18:08	08/27/23 17:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/26/23 18:08	08/27/23 17:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/26/23 18:08	08/27/23 17:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/26/23 18:08	08/27/23 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	08/26/23 18:08	08/27/23 17:35	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/26/23 18:08	08/27/23 17:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/28/23 12:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			08/25/23 11:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/24/23 12:53	08/25/23 03:15	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		08/24/23 12:53	08/25/23 03:15	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/24/23 12:53	08/25/23 03:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	08/24/23 12:53	08/25/23 03:15	1
o-Terphenyl	106		70 - 130	08/24/23 12:53	08/25/23 03:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	749		25.0		mg/Kg			08/25/23 03:06	5

Client Sample ID: W-SW-06.1

Lab Sample ID: 890-5139-2

Date Collected: 08/21/23 09:50

Matrix: Solid

Date Received: 08/22/23 08:30

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/26/23 18:08	08/27/23 18:01	1
Toluene	0.00967		0.00202		mg/Kg		08/26/23 18:08	08/27/23 18:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/26/23 18:08	08/27/23 18:01	1
m-Xylene & p-Xylene	0.00943		0.00403		mg/Kg		08/26/23 18:08	08/27/23 18:01	1
o-Xylene	0.00282		0.00202		mg/Kg		08/26/23 18:08	08/27/23 18:01	1
Xylenes, Total	0.0123		0.00403		mg/Kg		08/26/23 18:08	08/27/23 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130	08/26/23 18:08	08/27/23 18:01	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-5139-1
 SDG: Eddy

Client Sample ID: W-SW-06.1

Lab Sample ID: 890-5139-2

Date Collected: 08/21/23 09:50

Matrix: Solid

Date Received: 08/22/23 08:30

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	08/26/23 18:08	08/27/23 18:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0219		0.00403		mg/Kg			08/28/23 12:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			08/25/23 11:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/24/23 12:53	08/25/23 03:36	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		08/24/23 12:53	08/25/23 03:36	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/24/23 12:53	08/25/23 03:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	08/24/23 12:53	08/25/23 03:36	1
o-Terphenyl	99		70 - 130	08/24/23 12:53	08/25/23 03:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	660		24.8		mg/Kg			08/25/23 03:12	5

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-5139-1
 SDG: Eddy

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-5139-1	S-SW-01.1	143 S1+	90
890-5139-2	W-SW-06.1	178 S1+	101
LCS 880-61216/1-A	Lab Control Sample	126	86
LCSD 880-61216/2-A	Lab Control Sample Dup	135 S1+	86
MB 880-61206/8	Method Blank	73	79
MB 880-61216/5-A	Method Blank	78	78

Surrogate Legend
 BFB = 4-Bromofluorobenzene (Surr)
 DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5139-1	S-SW-01.1	104	106
890-5139-2	W-SW-06.1	98	99
LCS 880-61009/2-A	Lab Control Sample	97	105
LCSD 880-61009/3-A	Lab Control Sample Dup	103	117
MB 880-61009/1-A	Method Blank	153 S1+	167 S1+

Surrogate Legend
 1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-5139-1
 SDG: Eddy

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-61206/8
 Matrix: Solid
 Analysis Batch: 61206

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg			08/26/23 20:26	1
Toluene	<0.00200	U	0.00200		mg/Kg			08/26/23 20:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			08/26/23 20:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			08/26/23 20:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			08/26/23 20:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			08/26/23 20:26	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130					08/26/23 20:26	1
1,4-Difluorobenzene (Surr)	79		70 - 130					08/26/23 20:26	1

Lab Sample ID: MB 880-61216/5-A
 Matrix: Solid
 Analysis Batch: 61206

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 61216

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				08/26/23 18:08	08/27/23 09:42	1
1,4-Difluorobenzene (Surr)	78		70 - 130				08/26/23 18:08	08/27/23 09:42	1

Lab Sample ID: LCS 880-61216/1-A
 Matrix: Solid
 Analysis Batch: 61206

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 61216

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.09604		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09490		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1835		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09263		mg/Kg		93	70 - 130
	LCS	LCS					
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	126		70 - 130				
1,4-Difluorobenzene (Surr)	86		70 - 130				

Lab Sample ID: LCSD 880-61216/2-A
 Matrix: Solid
 Analysis Batch: 61206

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 61216

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.09799		mg/Kg		98	70 - 130	9	35

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-5139-1
 SDG: Eddy

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-61216/2-A
 Matrix: Solid
 Analysis Batch: 61206

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 61216

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD
							Limits	RPD	
Toluene	0.100	0.1084		mg/Kg		108	70 - 130	12	35
Ethylbenzene	0.100	0.1032		mg/Kg		103	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1981		mg/Kg		99	70 - 130	8	35
o-Xylene	0.100	0.1051		mg/Kg		105	70 - 130	13	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-61009/1-A
 Matrix: Solid
 Analysis Batch: 60956

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 61009

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/24/23 12:51	08/24/23 19:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/24/23 12:51	08/24/23 19:47	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	153	S1+	70 - 130	08/24/23 12:51	08/24/23 19:47	1
o-Terphenyl	167	S1+	70 - 130	08/24/23 12:51	08/24/23 19:47	1

Lab Sample ID: LCS 880-61009/2-A
 Matrix: Solid
 Analysis Batch: 60956

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 61009

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	1000	924.4		mg/Kg		92	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	850.1		mg/Kg		85	70 - 130	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	97		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-61009/3-A
 Matrix: Solid
 Analysis Batch: 60956

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 61009

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD
							Limits	RPD	
Gasoline Range Organics (GRO)-C6-C10	1000	969.2		mg/Kg		97	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	861.8		mg/Kg		86	70 - 130	1	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-5139-1
 SDG: Eddy

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-61009/3-A
 Matrix: Solid
 Analysis Batch: 60956

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 61009

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	117		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-60950/1-A
 Matrix: Solid
 Analysis Batch: 61020

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/24/23 23:53	1

Lab Sample ID: LCS 880-60950/2-A
 Matrix: Solid
 Analysis Batch: 61020

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	255.4		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-60950/3-A
 Matrix: Solid
 Analysis Batch: 61020

Client Sample ID: Lab Control Sample Dup
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	257.2		mg/Kg		103	90 - 110	1	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: MobleyJob ID: 890-5139-1
SDG: Eddy

GC VOA

Analysis Batch: 61206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5139-1	S-SW-01.1	Total/NA	Solid	8021B	61216
890-5139-2	W-SW-06.1	Total/NA	Solid	8021B	61216
MB 880-61206/8	Method Blank	Total/NA	Solid	8021B	
MB 880-61216/5-A	Method Blank	Total/NA	Solid	8021B	61216
LCS 880-61216/1-A	Lab Control Sample	Total/NA	Solid	8021B	61216
LCSD 880-61216/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	61216

Prep Batch: 61216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5139-1	S-SW-01.1	Total/NA	Solid	5035	
890-5139-2	W-SW-06.1	Total/NA	Solid	5035	
MB 880-61216/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-61216/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-61216/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 61308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5139-1	S-SW-01.1	Total/NA	Solid	Total BTEX	
890-5139-2	W-SW-06.1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 60956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5139-1	S-SW-01.1	Total/NA	Solid	8015B NM	61009
890-5139-2	W-SW-06.1	Total/NA	Solid	8015B NM	61009
MB 880-61009/1-A	Method Blank	Total/NA	Solid	8015B NM	61009
LCS 880-61009/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	61009
LCSD 880-61009/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	61009

Prep Batch: 61009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5139-1	S-SW-01.1	Total/NA	Solid	8015NM Prep	
890-5139-2	W-SW-06.1	Total/NA	Solid	8015NM Prep	
MB 880-61009/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-61009/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-61009/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 61133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5139-1	S-SW-01.1	Total/NA	Solid	8015 NM	
890-5139-2	W-SW-06.1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 60950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5139-1	S-SW-01.1	Soluble	Solid	DI Leach	
890-5139-2	W-SW-06.1	Soluble	Solid	DI Leach	
MB 880-60950/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60950/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60950/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-5139-1
SDG: Eddy

HPLC/IC

Analysis Batch: 61020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5139-1	S-SW-01.1	Soluble	Solid	300.0	60950
890-5139-2	W-SW-06.1	Soluble	Solid	300.0	60950
MB 880-60950/1-A	Method Blank	Soluble	Solid	300.0	60950
LCS 880-60950/2-A	Lab Control Sample	Soluble	Solid	300.0	60950
LCSD 880-60950/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60950

- 1
- 2
- 3
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- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley

Job ID: 890-5139-1
 SDG: Eddy

Client Sample ID: S-SW-01.1

Lab Sample ID: 890-5139-1

Date Collected: 08/21/23 09:15

Matrix: Solid

Date Received: 08/22/23 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	61216	08/26/23 18:08	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61206	08/27/23 17:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61308	08/28/23 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			61133	08/25/23 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	61009	08/24/23 12:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60956	08/25/23 03:15	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	60950	08/23/23 20:04	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	61020	08/25/23 03:06	CH	EET MID

Client Sample ID: W-SW-06.1

Lab Sample ID: 890-5139-2

Date Collected: 08/21/23 09:50

Matrix: Solid

Date Received: 08/22/23 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	61216	08/26/23 18:08	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61206	08/27/23 18:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61308	08/28/23 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			61133	08/25/23 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	61009	08/24/23 12:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60956	08/25/23 03:36	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	60950	08/23/23 20:04	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	61020	08/25/23 03:12	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-5139-1
SDG: Eddy

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-5139-1
SDG: Eddy

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley

Job ID: 890-5139-1
SDG: Eddy

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5139-1	S-SW-01.1	Solid	08/21/23 09:15	08/22/23 08:30	0 - 5
890-5139-2	W-SW-06.1	Solid	08/21/23 09:50	08/22/23 08:30	0 - 5

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5139-1

SDG Number: Eddy

Login Number: 5139

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5139-1

SDG Number: Eddy

Login Number: 5139

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/23/23 10:39 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
 Terracon Consulting Eng & Scientists
 5847 50th St
 Lubbock, Texas 79424
 Generated 1/10/2023 1:08:41 PM

JOB DESCRIPTION

Mobley Water Recycle Facility

JOB NUMBER

820-7013-1

Eurofins Lubbock
 6701 Aberdeen Ave.
 Suite 8
 Lubbock TX 79424



Eurofins Lubbock

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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1/10/2023 1:08:41 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

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Eurofins Lubbock

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists
Project/Site: Mobeley Water Recycle Facility

Laboratory Job ID: 820-7013-1

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Job ID: 820-7013-1

Laboratory: Eurofins Lubbock

Narrative

**Job Narrative
820-7013-1**

Receipt

The samples were received on 1/5/2023 4:44 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-43479 and analytical batch 880-43471 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43382 and analytical batch 880-43449 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-43343 and analytical batch 880-43315 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43380 and analytical batch 880-43416 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Client Sample ID: HA-1 (0-0.5)

Lab Sample ID: 820-7013-1

Date Collected: 01/04/23 08:00

Matrix: Solid

Date Received: 01/05/23 16:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 11:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 11:35	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		01/09/23 09:11	01/09/23 11:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/09/23 09:11	01/09/23 11:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 11:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/09/23 09:11	01/09/23 11:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	01/09/23 09:11	01/09/23 11:35	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/09/23 09:11	01/09/23 11:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/09/23 14:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/09/23 09:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/06/23 12:59	01/07/23 12:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		01/06/23 12:59	01/07/23 12:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/23 12:59	01/07/23 12:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	01/06/23 12:59	01/07/23 12:10	1
o-Terphenyl	79		70 - 130	01/06/23 12:59	01/07/23 12:10	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6960		50.0		mg/Kg			01/06/23 19:59	10

Client Sample ID: HA-1 (0.5-1)

Lab Sample ID: 820-7013-2

Date Collected: 01/04/23 08:05

Matrix: Solid

Date Received: 01/05/23 16:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 11:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 11:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 11:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/09/23 09:11	01/09/23 11:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 11:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/09/23 09:11	01/09/23 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	01/09/23 09:11	01/09/23 11:56	1
1,4-Difluorobenzene (Surr)	101		70 - 130	01/09/23 09:11	01/09/23 11:56	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Client Sample ID: HA-1 (0.5-1)

Lab Sample ID: 820-7013-2

Date Collected: 01/04/23 08:05

Matrix: Solid

Date Received: 01/05/23 16:44

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/09/23 14:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/09/23 09:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/06/23 12:59	01/07/23 13:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/06/23 12:59	01/07/23 13:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/06/23 12:59	01/07/23 13:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				01/06/23 12:59	01/07/23 13:12	1
o-Terphenyl	94		70 - 130				01/06/23 12:59	01/07/23 13:12	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4780		50.3		mg/Kg			01/06/23 20:05	10

Client Sample ID: HA-1 (1.5-2)

Lab Sample ID: 820-7013-3

Date Collected: 01/04/23 08:10

Matrix: Solid

Date Received: 01/05/23 16:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 12:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 12:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 12:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/09/23 09:11	01/09/23 12:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 12:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/09/23 09:11	01/09/23 12:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				01/09/23 09:11	01/09/23 12:17	1
1,4-Difluorobenzene (Surr)	99		70 - 130				01/09/23 09:11	01/09/23 12:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/09/23 14:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/09/23 09:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/06/23 12:59	01/07/23 13:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/06/23 12:59	01/07/23 13:33	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Client Sample ID: HA-1 (1.5-2)

Lab Sample ID: 820-7013-3

Date Collected: 01/04/23 08:10

Matrix: Solid

Date Received: 01/05/23 16:44

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/23 12:59	01/07/23 13:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				01/06/23 12:59	01/07/23 13:33	1
o-Terphenyl	80		70 - 130				01/06/23 12:59	01/07/23 13:33	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1560		50.2		mg/Kg			01/06/23 20:11	10

Client Sample ID: HA-2 (0-0.5)

Lab Sample ID: 820-7013-4

Date Collected: 01/04/23 08:20

Matrix: Solid

Date Received: 01/05/23 16:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 12:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 12:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 12:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/09/23 09:11	01/09/23 12:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 12:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/09/23 09:11	01/09/23 12:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				01/09/23 09:11	01/09/23 12:38	1
1,4-Difluorobenzene (Surr)	100		70 - 130				01/09/23 09:11	01/09/23 12:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/09/23 14:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/09/23 09:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/06/23 12:59	01/07/23 13:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/06/23 12:59	01/07/23 13:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/06/23 12:59	01/07/23 13:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				01/06/23 12:59	01/07/23 13:53	1
o-Terphenyl	82		70 - 130				01/06/23 12:59	01/07/23 13:53	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5630		49.8		mg/Kg			01/06/23 20:17	10

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Client Sample ID: HA-3 (0-0.5)

Lab Sample ID: 820-7013-5

Date Collected: 01/04/23 08:30

Matrix: Solid

Date Received: 01/05/23 16:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 12:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 12:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 12:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/09/23 09:11	01/09/23 12:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 12:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/09/23 09:11	01/09/23 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	01/09/23 09:11	01/09/23 12:58	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/09/23 09:11	01/09/23 12:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/09/23 14:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/09/23 09:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/06/23 12:59	01/07/23 14:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/06/23 12:59	01/07/23 14:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/23 12:59	01/07/23 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	01/06/23 12:59	01/07/23 14:14	1
o-Terphenyl	80		70 - 130	01/06/23 12:59	01/07/23 14:14	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4880	F1	49.6		mg/Kg			01/06/23 20:23	10

Client Sample ID: HA-4 (0.5-1)

Lab Sample ID: 820-7013-6

Date Collected: 01/04/23 08:40

Matrix: Solid

Date Received: 01/05/23 16:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 13:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 13:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 13:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/09/23 09:11	01/09/23 13:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 13:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/09/23 09:11	01/09/23 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	01/09/23 09:11	01/09/23 13:19	1
1,4-Difluorobenzene (Surr)	106		70 - 130	01/09/23 09:11	01/09/23 13:19	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Client Sample ID: HA-4 (0.5-1)

Lab Sample ID: 820-7013-6

Date Collected: 01/04/23 08:40

Matrix: Solid

Date Received: 01/05/23 16:44

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/09/23 14:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/09/23 09:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 14:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 14:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				01/06/23 12:59	01/07/23 14:35	1
o-Terphenyl	80		70 - 130				01/06/23 12:59	01/07/23 14:35	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4570		50.4		mg/Kg			01/06/23 20:42	10

Client Sample ID: HS-1 (0-0.5)

Lab Sample ID: 820-7013-7

Date Collected: 01/04/23 08:50

Matrix: Solid

Date Received: 01/05/23 16:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/09/23 09:11	01/09/23 15:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/09/23 09:11	01/09/23 15:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/09/23 09:11	01/09/23 15:52	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/09/23 09:11	01/09/23 15:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/09/23 09:11	01/09/23 15:52	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/09/23 09:11	01/09/23 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130				01/09/23 09:11	01/09/23 15:52	1
1,4-Difluorobenzene (Surr)	111		70 - 130				01/09/23 09:11	01/09/23 15:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/09/23 16:29	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/09/23 09:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 14:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 14:56	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Client Sample ID: HS-1 (0-0.5)

Lab Sample ID: 820-7013-7

Date Collected: 01/04/23 08:50

Matrix: Solid

Date Received: 01/05/23 16:44

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 14:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				01/06/23 12:59	01/07/23 14:56	1
o-Terphenyl	92		70 - 130				01/06/23 12:59	01/07/23 14:56	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	714		49.7		mg/Kg			01/06/23 20:48	10

Client Sample ID: HS-2 (0-0.5)

Lab Sample ID: 820-7013-8

Date Collected: 01/04/23 08:55

Matrix: Solid

Date Received: 01/05/23 16:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 16:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 16:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 16:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/09/23 09:11	01/09/23 16:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 16:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/09/23 09:11	01/09/23 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				01/09/23 09:11	01/09/23 16:26	1
1,4-Difluorobenzene (Surr)	93		70 - 130				01/09/23 09:11	01/09/23 16:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/09/23 16:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/09/23 09:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/06/23 12:59	01/07/23 15:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/06/23 12:59	01/07/23 15:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/23 12:59	01/07/23 15:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				01/06/23 12:59	01/07/23 15:17	1
o-Terphenyl	76		70 - 130				01/06/23 12:59	01/07/23 15:17	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	894		25.2		mg/Kg			01/06/23 21:06	5

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Client Sample ID: HS-3 (0-0.5)

Lab Sample ID: 820-7013-9

Date Collected: 01/04/23 09:00

Matrix: Solid

Date Received: 01/05/23 16:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 16:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 16:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 16:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/09/23 09:11	01/09/23 16:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 16:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/09/23 09:11	01/09/23 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	01/09/23 09:11	01/09/23 16:46	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/09/23 09:11	01/09/23 16:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/10/23 13:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/09/23 09:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 15:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 15:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	01/06/23 12:59	01/07/23 15:38	1
o-Terphenyl	83		70 - 130	01/06/23 12:59	01/07/23 15:38	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.3		5.00		mg/Kg			01/06/23 21:12	1

Client Sample ID: HS-4 (0-0.5)

Lab Sample ID: 820-7013-10

Date Collected: 01/04/23 09:05

Matrix: Solid

Date Received: 01/05/23 16:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 18:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 18:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 18:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/09/23 09:11	01/09/23 18:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 18:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/09/23 09:11	01/09/23 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	01/09/23 09:11	01/09/23 18:31	1
1,4-Difluorobenzene (Surr)	97		70 - 130	01/09/23 09:11	01/09/23 18:31	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Client Sample ID: HS-4 (0-0.5)

Lab Sample ID: 820-7013-10

Date Collected: 01/04/23 09:05

Matrix: Solid

Date Received: 01/05/23 16:44

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/10/23 13:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/09/23 09:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/06/23 12:59	01/07/23 15:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/06/23 12:59	01/07/23 15:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/06/23 12:59	01/07/23 15:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				01/06/23 12:59	01/07/23 15:59	1
o-Terphenyl	77		70 - 130				01/06/23 12:59	01/07/23 15:59	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.1		4.98		mg/Kg			01/06/23 21:19	1

Client Sample ID: HS-5 (0-0.5)

Lab Sample ID: 820-7013-11

Date Collected: 01/04/23 09:10

Matrix: Solid

Date Received: 01/05/23 16:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/23 16:33	01/09/23 13:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/23 16:33	01/09/23 13:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/23 16:33	01/09/23 13:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/06/23 16:33	01/09/23 13:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/23 16:33	01/09/23 13:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/06/23 16:33	01/09/23 13:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				01/06/23 16:33	01/09/23 13:35	1
1,4-Difluorobenzene (Surr)	84		70 - 130				01/06/23 16:33	01/09/23 13:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/09/23 14:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/09/23 09:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 16:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 16:41	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Client Sample ID: HS-5 (0-0.5)

Lab Sample ID: 820-7013-11

Date Collected: 01/04/23 09:10

Matrix: Solid

Date Received: 01/05/23 16:44

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 16:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				01/06/23 12:59	01/07/23 16:41	1
o-Terphenyl	80		70 - 130				01/06/23 12:59	01/07/23 16:41	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			01/06/23 21:25	1

Client Sample ID: HS-6 (0-0.5)

Lab Sample ID: 820-7013-12

Date Collected: 01/04/23 09:15

Matrix: Solid

Date Received: 01/05/23 16:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/06/23 16:33	01/09/23 13:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/06/23 16:33	01/09/23 13:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/06/23 16:33	01/09/23 13:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/23 16:33	01/09/23 13:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/23 16:33	01/09/23 13:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/23 16:33	01/09/23 13:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				01/06/23 16:33	01/09/23 13:55	1
1,4-Difluorobenzene (Surr)	81		70 - 130				01/06/23 16:33	01/09/23 13:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/09/23 15:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/09/23 09:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 17:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 17:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 17:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				01/06/23 12:59	01/07/23 17:02	1
o-Terphenyl	79		70 - 130				01/06/23 12:59	01/07/23 17:02	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.76		5.02		mg/Kg			01/06/23 21:31	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Client Sample ID: HS-7 (0-0.5)

Lab Sample ID: 820-7013-13

Date Collected: 01/04/23 09:20

Matrix: Solid

Date Received: 01/05/23 16:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/06/23 16:33	01/09/23 14:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/06/23 16:33	01/09/23 14:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/06/23 16:33	01/09/23 14:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/23 16:33	01/09/23 14:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/23 16:33	01/09/23 14:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/23 16:33	01/09/23 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	01/06/23 16:33	01/09/23 14:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130	01/06/23 16:33	01/09/23 14:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/09/23 15:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/09/23 11:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/06/23 08:58	01/06/23 19:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/06/23 08:58	01/06/23 19:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/23 08:58	01/06/23 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	01/06/23 08:58	01/06/23 19:04	1
o-Terphenyl	110		70 - 130	01/06/23 08:58	01/06/23 19:04	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		5.01		mg/Kg			01/06/23 21:37	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
820-7013-1	HA-1 (0-0.5)	112	95
820-7013-1 MS	HA-1 (0-0.5)	105	89
820-7013-1 MSD	HA-1 (0-0.5)	103	94
820-7013-2	HA-1 (0.5-1)	126	101
820-7013-3	HA-1 (1.5-2)	130	99
820-7013-4	HA-2 (0-0.5)	129	100
820-7013-5	HA-3 (0-0.5)	129	102
820-7013-6	HA-4 (0.5-1)	129	106
820-7013-7	HS-1 (0-0.5)	168 S1+	111
820-7013-8	HS-2 (0-0.5)	99	93
820-7013-9	HS-3 (0-0.5)	122	104
820-7013-10	HS-4 (0-0.5)	110	97
820-7013-11	HS-5 (0-0.5)	112	84
820-7013-12	HS-6 (0-0.5)	119	81
820-7013-13	HS-7 (0-0.5)	95	96
LCS 880-43439/1-A	Lab Control Sample	89	99
LCS 880-43479/1-A	Lab Control Sample	93	96
LCSD 880-43439/2-A	Lab Control Sample Dup	106	102
LCSD 880-43479/2-A	Lab Control Sample Dup	93	96
MB 880-43439/5-A	Method Blank	80	89
MB 880-43479/5-A	Method Blank	103	86

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
820-7013-1	HA-1 (0-0.5)	77	79
820-7013-1 MS	HA-1 (0-0.5)	89	80
820-7013-1 MSD	HA-1 (0-0.5)	89	81
820-7013-2	HA-1 (0.5-1)	91	94
820-7013-3	HA-1 (1.5-2)	79	80
820-7013-4	HA-2 (0-0.5)	81	82
820-7013-5	HA-3 (0-0.5)	79	80
820-7013-6	HA-4 (0.5-1)	79	80
820-7013-7	HS-1 (0-0.5)	91	92
820-7013-8	HS-2 (0-0.5)	75	76
820-7013-9	HS-3 (0-0.5)	82	83
820-7013-10	HS-4 (0-0.5)	78	77
820-7013-11	HS-5 (0-0.5)	79	80
820-7013-12	HS-6 (0-0.5)	78	79
820-7013-13	HS-7 (0-0.5)	100	110
LCS 880-43343/2-A	Lab Control Sample	128	117
LCS 880-43382/2-A	Lab Control Sample	123	110
LCSD 880-43343/3-A	Lab Control Sample Dup	125	123

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Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
LCSD 880-43382/3-A	Lab Control Sample Dup	117	104
MB 880-43343/1-A	Method Blank	150 S1+	137 S1+
MB 880-43382/1-A	Method Blank	124	121

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43439/5-A
 Matrix: Solid
 Analysis Batch: 43469

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 43439

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/23 16:33	01/09/23 11:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/23 16:33	01/09/23 11:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/23 16:33	01/09/23 11:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/06/23 16:33	01/09/23 11:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/23 16:33	01/09/23 11:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/06/23 16:33	01/09/23 11:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	01/06/23 16:33	01/09/23 11:10	1
1,4-Difluorobenzene (Surr)	89		70 - 130	01/06/23 16:33	01/09/23 11:10	1

Lab Sample ID: LCS 880-43439/1-A
 Matrix: Solid
 Analysis Batch: 43469

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 43439

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1002		mg/Kg		100	70 - 130
Toluene	0.100	0.1030		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.08917		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1878		mg/Kg		94	70 - 130
o-Xylene	0.100	0.1033		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-43439/2-A
 Matrix: Solid
 Analysis Batch: 43469

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 43439

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09637		mg/Kg		96	70 - 130	4	35
Toluene	0.100	0.1021		mg/Kg		102	70 - 130	1	35
Ethylbenzene	0.100	0.09727		mg/Kg		97	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2121		mg/Kg		106	70 - 130	12	35
o-Xylene	0.100	0.1167		mg/Kg		117	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-43479/5-A
 Matrix: Solid
 Analysis Batch: 43471

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 43479

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 11:14	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-43479/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 43471

Prep Batch: 43479

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 11:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/09/23 09:11	01/09/23 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 11:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/09/23 09:11	01/09/23 11:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	01/09/23 09:11	01/09/23 11:14	1
1,4-Difluorobenzene (Surr)	86		70 - 130	01/09/23 09:11	01/09/23 11:14	1

Lab Sample ID: LCS 880-43479/1-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 43471

Prep Batch: 43479

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08291		mg/Kg		83	70 - 130
Toluene	0.100	0.08166		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.07350		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	0.200	0.1583		mg/Kg		79	70 - 130
o-Xylene	0.100	0.07894		mg/Kg		79	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-43479/2-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 43471

Prep Batch: 43479

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09447		mg/Kg		94	70 - 130	13	35
Toluene	0.100	0.09192		mg/Kg		92	70 - 130	12	35
Ethylbenzene	0.100	0.08452		mg/Kg		85	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.1820		mg/Kg		91	70 - 130	14	35
o-Xylene	0.100	0.09056		mg/Kg		91	70 - 130	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 820-7013-1 MS

Client Sample ID: HA-1 (0-0.5)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 43471

Prep Batch: 43479

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.08194		mg/Kg		82	70 - 130
Toluene	<0.00201	U	0.100	0.07829		mg/Kg		78	70 - 130
Ethylbenzene	<0.00201	U F1	0.100	0.06914	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1511		mg/Kg		75	70 - 130

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 820-7013-1 MS

Client Sample ID: HA-1 (0-0.5)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 43471

Prep Batch: 43479

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier					Limits
o-Xylene	<0.00201	U	0.100	0.07521		mg/Kg		75	70 - 130	
Surrogate		MS	MS							
	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	105		70 - 130							
1,4-Difluorobenzene (Surr)	89		70 - 130							

Lab Sample ID: 820-7013-1 MSD

Client Sample ID: HA-1 (0-0.5)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 43471

Prep Batch: 43479

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Benzene	<0.00201	U	0.0996	0.08958		mg/Kg		90	70 - 130	9		35
Toluene	<0.00201	U	0.0996	0.08435		mg/Kg		85	70 - 130	7		35
Ethylbenzene	<0.00201	U F1	0.0996	0.07189		mg/Kg		72	70 - 130	4		35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1547		mg/Kg		78	70 - 130	2		35
o-Xylene	<0.00201	U	0.0996	0.07639		mg/Kg		77	70 - 130	2		35
Surrogate		MSD	MSD									
	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	103		70 - 130									
1,4-Difluorobenzene (Surr)	94		70 - 130									

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-43343/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 43315

Prep Batch: 43343

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier								
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/06/23 08:18	01/06/23 08:29	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/06/23 08:18	01/06/23 08:29	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/23 08:18	01/06/23 08:29	1	
Surrogate		MB	MB							
	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1-Chlorooctane	150	S1+	70 - 130	01/06/23 08:18	01/06/23 08:29	1				
o-Terphenyl	137	S1+	70 - 130	01/06/23 08:18	01/06/23 08:29	1				

Lab Sample ID: LCS 880-43343/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 43315

Prep Batch: 43343

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	1055		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1009		mg/Kg		101	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-43343/2-A
 Matrix: Solid
 Analysis Batch: 43315

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 43343

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	128		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: LCSD 880-43343/3-A
 Matrix: Solid
 Analysis Batch: 43315

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 43343

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	994.1		mg/Kg		99	70 - 130	6	20	
Diesel Range Organics (Over C10-C28)	1000	1020		mg/Kg		102	70 - 130	1	20	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	125		70 - 130
o-Terphenyl	123		70 - 130

Lab Sample ID: MB 880-43382/1-A
 Matrix: Solid
 Analysis Batch: 43449

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 43382

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 09:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 09:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 09:18	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	124		70 - 130	01/06/23 12:59	01/07/23 09:18	1
o-Terphenyl	121		70 - 130	01/06/23 12:59	01/07/23 09:18	1

Lab Sample ID: LCS 880-43382/2-A
 Matrix: Solid
 Analysis Batch: 43449

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 43382

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	1000	1076		mg/Kg		108	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	975.0		mg/Kg		98	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	123		70 - 130
o-Terphenyl	110		70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-43382/3-A
 Matrix: Solid
 Analysis Batch: 43449

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 43382

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	993.4		mg/Kg		99	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	910.2		mg/Kg		91	70 - 130	7	20
Surrogate		%Recovery	Qualifier						Limits
1-Chlorooctane		117							70 - 130
o-Terphenyl		104							70 - 130

Lab Sample ID: 820-7013-1 MS
 Matrix: Solid
 Analysis Batch: 43449

Client Sample ID: HA-1 (0-0.5)
 Prep Type: Total/NA
 Prep Batch: 43382

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	843.8		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	690.3	F1	mg/Kg		67	70 - 130
Surrogate		%Recovery		Qualifier					Limits
1-Chlorooctane		89							70 - 130
o-Terphenyl		80							70 - 130

Lab Sample ID: 820-7013-1 MSD
 Matrix: Solid
 Analysis Batch: 43449

Client Sample ID: HA-1 (0-0.5)
 Prep Type: Total/NA
 Prep Batch: 43382

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	845.6		mg/Kg		82	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	681.4	F1	mg/Kg		66	70 - 130	1	20
Surrogate		%Recovery		Qualifier							Limits
1-Chlorooctane		89									70 - 130
o-Terphenyl		81									70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43380/1-A
 Matrix: Solid
 Analysis Batch: 43416

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/06/23 18:38	1

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-43380/2-A
 Matrix: Solid
 Analysis Batch: 43416

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.3		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-43380/3-A
 Matrix: Solid
 Analysis Batch: 43416

Client Sample ID: Lab Control Sample Dup
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	253.3		mg/Kg		101	90 - 110	4	20

Lab Sample ID: 820-7013-5 MS
 Matrix: Solid
 Analysis Batch: 43416

Client Sample ID: HA-3 (0-0.5)
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	4880	F1	2480	7766	F1	mg/Kg		116	90 - 110

Lab Sample ID: 820-7013-5 MSD
 Matrix: Solid
 Analysis Batch: 43416

Client Sample ID: HA-3 (0-0.5)
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4880	F1	2480	8068	F1	mg/Kg		129	90 - 110	4	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

GC VOA

Prep Batch: 43439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-11	HS-5 (0-0.5)	Total/NA	Solid	5035	
820-7013-12	HS-6 (0-0.5)	Total/NA	Solid	5035	
820-7013-13	HS-7 (0-0.5)	Total/NA	Solid	5035	
MB 880-43439/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43439/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43439/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 43469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-11	HS-5 (0-0.5)	Total/NA	Solid	8021B	43439
820-7013-12	HS-6 (0-0.5)	Total/NA	Solid	8021B	43439
820-7013-13	HS-7 (0-0.5)	Total/NA	Solid	8021B	43439
MB 880-43439/5-A	Method Blank	Total/NA	Solid	8021B	43439
LCS 880-43439/1-A	Lab Control Sample	Total/NA	Solid	8021B	43439
LCSD 880-43439/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43439

Analysis Batch: 43471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-1	HA-1 (0-0.5)	Total/NA	Solid	8021B	43479
820-7013-2	HA-1 (0.5-1)	Total/NA	Solid	8021B	43479
820-7013-3	HA-1 (1.5-2)	Total/NA	Solid	8021B	43479
820-7013-4	HA-2 (0-0.5)	Total/NA	Solid	8021B	43479
820-7013-5	HA-3 (0-0.5)	Total/NA	Solid	8021B	43479
820-7013-6	HA-4 (0.5-1)	Total/NA	Solid	8021B	43479
820-7013-7	HS-1 (0-0.5)	Total/NA	Solid	8021B	43479
820-7013-8	HS-2 (0-0.5)	Total/NA	Solid	8021B	43479
820-7013-9	HS-3 (0-0.5)	Total/NA	Solid	8021B	43479
820-7013-10	HS-4 (0-0.5)	Total/NA	Solid	8021B	43479
MB 880-43479/5-A	Method Blank	Total/NA	Solid	8021B	43479
LCS 880-43479/1-A	Lab Control Sample	Total/NA	Solid	8021B	43479
LCSD 880-43479/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43479
820-7013-1 MS	HA-1 (0-0.5)	Total/NA	Solid	8021B	43479
820-7013-1 MSD	HA-1 (0-0.5)	Total/NA	Solid	8021B	43479

Prep Batch: 43479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-1	HA-1 (0-0.5)	Total/NA	Solid	5035	
820-7013-2	HA-1 (0.5-1)	Total/NA	Solid	5035	
820-7013-3	HA-1 (1.5-2)	Total/NA	Solid	5035	
820-7013-4	HA-2 (0-0.5)	Total/NA	Solid	5035	
820-7013-5	HA-3 (0-0.5)	Total/NA	Solid	5035	
820-7013-6	HA-4 (0.5-1)	Total/NA	Solid	5035	
820-7013-7	HS-1 (0-0.5)	Total/NA	Solid	5035	
820-7013-8	HS-2 (0-0.5)	Total/NA	Solid	5035	
820-7013-9	HS-3 (0-0.5)	Total/NA	Solid	5035	
820-7013-10	HS-4 (0-0.5)	Total/NA	Solid	5035	
MB 880-43479/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43479/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43479/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-7013-1 MS	HA-1 (0-0.5)	Total/NA	Solid	5035	
820-7013-1 MSD	HA-1 (0-0.5)	Total/NA	Solid	5035	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

GC VOA

Analysis Batch: 43558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-1	HA-1 (0-0.5)	Total/NA	Solid	Total BTEX	
820-7013-2	HA-1 (0.5-1)	Total/NA	Solid	Total BTEX	
820-7013-3	HA-1 (1.5-2)	Total/NA	Solid	Total BTEX	
820-7013-4	HA-2 (0-0.5)	Total/NA	Solid	Total BTEX	
820-7013-5	HA-3 (0-0.5)	Total/NA	Solid	Total BTEX	
820-7013-6	HA-4 (0.5-1)	Total/NA	Solid	Total BTEX	
820-7013-7	HS-1 (0-0.5)	Total/NA	Solid	Total BTEX	
820-7013-8	HS-2 (0-0.5)	Total/NA	Solid	Total BTEX	
820-7013-9	HS-3 (0-0.5)	Total/NA	Solid	Total BTEX	
820-7013-10	HS-4 (0-0.5)	Total/NA	Solid	Total BTEX	
820-7013-11	HS-5 (0-0.5)	Total/NA	Solid	Total BTEX	
820-7013-12	HS-6 (0-0.5)	Total/NA	Solid	Total BTEX	
820-7013-13	HS-7 (0-0.5)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 43315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-13	HS-7 (0-0.5)	Total/NA	Solid	8015B NM	43343
MB 880-43343/1-A	Method Blank	Total/NA	Solid	8015B NM	43343
LCS 880-43343/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43343
LCSD 880-43343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43343

Prep Batch: 43343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-13	HS-7 (0-0.5)	Total/NA	Solid	8015NM Prep	
MB 880-43343/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43343/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 43382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-1	HA-1 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-7013-2	HA-1 (0.5-1)	Total/NA	Solid	8015NM Prep	
820-7013-3	HA-1 (1.5-2)	Total/NA	Solid	8015NM Prep	
820-7013-4	HA-2 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-7013-5	HA-3 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-7013-6	HA-4 (0.5-1)	Total/NA	Solid	8015NM Prep	
820-7013-7	HS-1 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-7013-8	HS-2 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-7013-9	HS-3 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-7013-10	HS-4 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-7013-11	HS-5 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-7013-12	HS-6 (0-0.5)	Total/NA	Solid	8015NM Prep	
MB 880-43382/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43382/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43382/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-7013-1 MS	HA-1 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-7013-1 MSD	HA-1 (0-0.5)	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

GC Semi VOA

Analysis Batch: 43449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-1	HA-1 (0-0.5)	Total/NA	Solid	8015B NM	43382
820-7013-2	HA-1 (0.5-1)	Total/NA	Solid	8015B NM	43382
820-7013-3	HA-1 (1.5-2)	Total/NA	Solid	8015B NM	43382
820-7013-4	HA-2 (0-0.5)	Total/NA	Solid	8015B NM	43382
820-7013-5	HA-3 (0-0.5)	Total/NA	Solid	8015B NM	43382
820-7013-6	HA-4 (0.5-1)	Total/NA	Solid	8015B NM	43382
820-7013-7	HS-1 (0-0.5)	Total/NA	Solid	8015B NM	43382
820-7013-8	HS-2 (0-0.5)	Total/NA	Solid	8015B NM	43382
820-7013-9	HS-3 (0-0.5)	Total/NA	Solid	8015B NM	43382
820-7013-10	HS-4 (0-0.5)	Total/NA	Solid	8015B NM	43382
820-7013-11	HS-5 (0-0.5)	Total/NA	Solid	8015B NM	43382
820-7013-12	HS-6 (0-0.5)	Total/NA	Solid	8015B NM	43382
MB 880-43382/1-A	Method Blank	Total/NA	Solid	8015B NM	43382
LCS 880-43382/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43382
LCS 880-43382/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43382
820-7013-1 MS	HA-1 (0-0.5)	Total/NA	Solid	8015B NM	43382
820-7013-1 MSD	HA-1 (0-0.5)	Total/NA	Solid	8015B NM	43382

Analysis Batch: 43489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-1	HA-1 (0-0.5)	Total/NA	Solid	8015 NM	
820-7013-2	HA-1 (0.5-1)	Total/NA	Solid	8015 NM	
820-7013-3	HA-1 (1.5-2)	Total/NA	Solid	8015 NM	
820-7013-4	HA-2 (0-0.5)	Total/NA	Solid	8015 NM	
820-7013-5	HA-3 (0-0.5)	Total/NA	Solid	8015 NM	
820-7013-6	HA-4 (0.5-1)	Total/NA	Solid	8015 NM	
820-7013-7	HS-1 (0-0.5)	Total/NA	Solid	8015 NM	
820-7013-8	HS-2 (0-0.5)	Total/NA	Solid	8015 NM	
820-7013-9	HS-3 (0-0.5)	Total/NA	Solid	8015 NM	
820-7013-10	HS-4 (0-0.5)	Total/NA	Solid	8015 NM	
820-7013-11	HS-5 (0-0.5)	Total/NA	Solid	8015 NM	
820-7013-12	HS-6 (0-0.5)	Total/NA	Solid	8015 NM	
820-7013-13	HS-7 (0-0.5)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-1	HA-1 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-2	HA-1 (0.5-1)	Soluble	Solid	DI Leach	
820-7013-3	HA-1 (1.5-2)	Soluble	Solid	DI Leach	
820-7013-4	HA-2 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-5	HA-3 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-6	HA-4 (0.5-1)	Soluble	Solid	DI Leach	
820-7013-7	HS-1 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-8	HS-2 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-9	HS-3 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-10	HS-4 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-11	HS-5 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-12	HS-6 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-13	HS-7 (0-0.5)	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

HPLC/IC (Continued)

Leach Batch: 43380 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-43380/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43380/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43380/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-7013-5 MS	HA-3 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-5 MSD	HA-3 (0-0.5)	Soluble	Solid	DI Leach	

Analysis Batch: 43416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-1	HA-1 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-2	HA-1 (0.5-1)	Soluble	Solid	300.0	43380
820-7013-3	HA-1 (1.5-2)	Soluble	Solid	300.0	43380
820-7013-4	HA-2 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-5	HA-3 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-6	HA-4 (0.5-1)	Soluble	Solid	300.0	43380
820-7013-7	HS-1 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-8	HS-2 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-9	HS-3 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-10	HS-4 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-11	HS-5 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-12	HS-6 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-13	HS-7 (0-0.5)	Soluble	Solid	300.0	43380
MB 880-43380/1-A	Method Blank	Soluble	Solid	300.0	43380
LCS 880-43380/2-A	Lab Control Sample	Soluble	Solid	300.0	43380
LCSD 880-43380/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43380
820-7013-5 MS	HA-3 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-5 MSD	HA-3 (0-0.5)	Soluble	Solid	300.0	43380

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Client Sample ID: HA-1 (0-0.5)

Lab Sample ID: 820-7013-1

Date Collected: 01/04/23 08:00

Matrix: Solid

Date Received: 01/05/23 16:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 11:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 14:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 12:10	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		10			43416	01/06/23 19:59	CH	EET MID

Client Sample ID: HA-1 (0.5-1)

Lab Sample ID: 820-7013-2

Date Collected: 01/04/23 08:05

Matrix: Solid

Date Received: 01/05/23 16:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 11:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 14:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 13:12	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		10			43416	01/06/23 20:05	CH	EET MID

Client Sample ID: HA-1 (1.5-2)

Lab Sample ID: 820-7013-3

Date Collected: 01/04/23 08:10

Matrix: Solid

Date Received: 01/05/23 16:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 12:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 14:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 13:33	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		10			43416	01/06/23 20:11	CH	EET MID

Client Sample ID: HA-2 (0-0.5)

Lab Sample ID: 820-7013-4

Date Collected: 01/04/23 08:20

Matrix: Solid

Date Received: 01/05/23 16:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 12:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 14:50	AJ	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Client Sample ID: HA-2 (0-0.5)

Lab Sample ID: 820-7013-4

Date Collected: 01/04/23 08:20

Matrix: Solid

Date Received: 01/05/23 16:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 13:53	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		10			43416	01/06/23 20:17	CH	EET MID

Client Sample ID: HA-3 (0-0.5)

Lab Sample ID: 820-7013-5

Date Collected: 01/04/23 08:30

Matrix: Solid

Date Received: 01/05/23 16:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 12:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 14:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 14:14	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		10			43416	01/06/23 20:23	CH	EET MID

Client Sample ID: HA-4 (0.5-1)

Lab Sample ID: 820-7013-6

Date Collected: 01/04/23 08:40

Matrix: Solid

Date Received: 01/05/23 16:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 13:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 14:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 14:35	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		10			43416	01/06/23 20:42	CH	EET MID

Client Sample ID: HS-1 (0-0.5)

Lab Sample ID: 820-7013-7

Date Collected: 01/04/23 08:50

Matrix: Solid

Date Received: 01/05/23 16:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 15:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 16:29	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 14:56	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Client Sample ID: HS-1 (0-0.5)

Lab Sample ID: 820-7013-7

Date Collected: 01/04/23 08:50

Matrix: Solid

Date Received: 01/05/23 16:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		10			43416	01/06/23 20:48	CH	EET MID

Client Sample ID: HS-2 (0-0.5)

Lab Sample ID: 820-7013-8

Date Collected: 01/04/23 08:55

Matrix: Solid

Date Received: 01/05/23 16:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 16:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 16:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 15:17	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		5			43416	01/06/23 21:06	CH	EET MID

Client Sample ID: HS-3 (0-0.5)

Lab Sample ID: 820-7013-9

Date Collected: 01/04/23 09:00

Matrix: Solid

Date Received: 01/05/23 16:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 16:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/10/23 13:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 15:38	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		1			43416	01/06/23 21:12	CH	EET MID

Client Sample ID: HS-4 (0-0.5)

Lab Sample ID: 820-7013-10

Date Collected: 01/04/23 09:05

Matrix: Solid

Date Received: 01/05/23 16:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 18:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/10/23 13:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 15:59	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		1			43416	01/06/23 21:19	CH	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Client Sample ID: HS-5 (0-0.5)

Lab Sample ID: 820-7013-11

Date Collected: 01/04/23 09:10

Matrix: Solid

Date Received: 01/05/23 16:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43439	01/06/23 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43469	01/09/23 13:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 14:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 16:41	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		1			43416	01/06/23 21:25	CH	EET MID

Client Sample ID: HS-6 (0-0.5)

Lab Sample ID: 820-7013-12

Date Collected: 01/04/23 09:15

Matrix: Solid

Date Received: 01/05/23 16:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43439	01/06/23 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43469	01/09/23 13:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 15:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 17:02	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		1			43416	01/06/23 21:31	CH	EET MID

Client Sample ID: HS-7 (0-0.5)

Lab Sample ID: 820-7013-13

Date Collected: 01/04/23 09:20

Matrix: Solid

Date Received: 01/05/23 16:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43439	01/06/23 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43469	01/09/23 14:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 15:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43343	01/06/23 08:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43315	01/06/23 19:04	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		1			43416	01/06/23 21:37	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-7013-1	HA-1 (0-0.5)	Solid	01/04/23 08:00	01/05/23 16:44
820-7013-2	HA-1 (0.5-1)	Solid	01/04/23 08:05	01/05/23 16:44
820-7013-3	HA-1 (1.5-2)	Solid	01/04/23 08:10	01/05/23 16:44
820-7013-4	HA-2 (0-0.5)	Solid	01/04/23 08:20	01/05/23 16:44
820-7013-5	HA-3 (0-0.5)	Solid	01/04/23 08:30	01/05/23 16:44
820-7013-6	HA-4 (0.5-1)	Solid	01/04/23 08:40	01/05/23 16:44
820-7013-7	HS-1 (0-0.5)	Solid	01/04/23 08:50	01/05/23 16:44
820-7013-8	HS-2 (0-0.5)	Solid	01/04/23 08:55	01/05/23 16:44
820-7013-9	HS-3 (0-0.5)	Solid	01/04/23 09:00	01/05/23 16:44
820-7013-10	HS-4 (0-0.5)	Solid	01/04/23 09:05	01/05/23 16:44
820-7013-11	HS-5 (0-0.5)	Solid	01/04/23 09:10	01/05/23 16:44
820-7013-12	HS-6 (0-0.5)	Solid	01/04/23 09:15	01/05/23 16:44
820-7013-13	HS-7 (0-0.5)	Solid	01/04/23 09:20	01/05/23 16:44

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820-7013 Chain of Custody

Loc: 820
7013



Laboratory:
Address:

Phone:
Contact:
SRS #:

Office Location
Project Manager J. Guesnier
Sampler's Name J. Guesnier
Sampler's Signature

CHAIN OF CUSTODY RECORD

ANALYSIS REQUESTED

LAB USE ONLY
DUE DATE:

TEMP OF COOLER
WHEN RECEIVED (°C)

Page 1 of 1

Matrix	Date	Time	Project Number		Project Name	Identifying Marks of Sample(s)		No. Type of Containers		TPH Extended 8015	BTEX (EPA Method 8021B)	Chloride (EPA Method 300)	Hold	Lab Sample ID
			Comp	Grab		Start Depth	End Depth	4 Oz Glass						
S	1/4/2022	8:00		X	Mobley Water Recycle Facility	HA-1 (0-0.5)	0'	0.5'	X	X				
S	1/4/2022	8:05		X		HA-1 (0.5-1)	0.5'	1'	X	X				
S	1/4/2022	8:10		X		HA-1 (1.5-2)	1.5'	2'	X	X				
S	1/4/2022	8:20		X		HA-2 (0-0.5)	0'	0.5'	X	X				
S	1/4/2022	8:30		X		HA-3 (0-0.5)	0'	0.5'	X	X				
S	1/4/2022	8:40		X		HA-4 (0.5-1)	0.5'	1'	X	X				
S	1/4/2022	8:50		X		HS-1 (0-0.5)	0'	0.5'	X	X				
S	1/4/2022	8:55		X		HS-2 (0-0.5)	0'	0.5'	X	X				
S	1/4/2022	9:00		X		HS-3 (0-0.5)	0'	0.5'	X	X				
S	1/4/2022	9:05		X		HS-4 (0-0.5)	0'	0.5'	X	X				
S	1/4/2022	9:10		X		HS-5 (0-0.5)	0'	0.5'	X	X				
S	1/4/2022	9:15		X		HS-6 (0-0.5)	0'	0.5'	X	X				
S	1/4/2022	9:20		X		HS-7 (0-0.5)	0'	0.5'	X	X				

TURNAROUND TIME
 Requisitioned by (Signature) [Signature] Date: 1-5-22 Time: 16:44
 Requisitioned by (Signature) [Signature] Date: 1-5-22 Time: 16:44
 Requisitioned by (Signature) [Signature] Date: [] Time: []
 Requisitioned by (Signature) [Signature] Date: [] Time: []
 Requisitioned by (Signature) [Signature] Date: [] Time: []

TRRP Laboratory Review Checklist
 Normal 48-Hour Rush 24-Hour Rush
 Received by (Signature) [Signature] Date: 1-5-22 Time: 16:44
 Received by (Signature) [Signature] Date: [] Time: []
 Received by (Signature) [Signature] Date: [] Time: []
 Received by (Signature) [Signature] Date: [] Time: []

Bill To: Solans Water Midstream
 e-mail results to: joseph.guesnier@terracon.com, travis.casey@terracon.com

Matrix: WW Wastewater, VOA 40 ml/L, W Water, A/S Amber Glass 1L, S-Sed, 250 ml + Glass wide mouth
 Container: A/S Amber Glass 1L, A- Air Bag, P/O Packed or other, C- Charcoal tube, S- Sludge

Lubbock Office ■ 5827 50th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140
 Responsive ■ Resourceful ■ Reliable

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-7013-1

Login Number: 7013

List Source: Eurofins Lubbock

List Number: 1

Creator: Ruggles, Ashley

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-7013-1

Login Number: 7013

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 01/06/23 11:27 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Adams
 Terracon Consulting Eng & Scientists
 5847 50th St
 Lubbock, Texas 79424
 Generated 1/17/2023 4:21:32 PM

JOB DESCRIPTION

Mobley Water Release
 SDG NUMBER KH227027

JOB NUMBER

890-3836-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
1/17/2023 4:21:32 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Eurofins Carlsbad

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Release

Laboratory Job ID: 890-3836-1
SDG: KH227027

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Release

Job ID: 890-3836-1
SDG: KH227027

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Release

Job ID: 890-3836-1
SDG: KH227027

Job ID: 890-3836-1

Laboratory: Eurofins Carlsbad**Narrative**

**Job Narrative
890-3836-1**

Receipt

The samples were received on 1/12/2023 2:32 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-44056/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: North Pond SE (890-3836-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: South Pond SE (890-3836-4) and West Release (890-3836-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Release

Job ID: 890-3836-1
 SDG: KH227027

Client Sample ID: North Pond NW

Lab Sample ID: 890-3836-1

Date Collected: 01/12/23 12:00

Matrix: Water

Date Received: 01/12/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0275		0.00200		mg/L			01/16/23 14:24	1
Toluene	0.00929		0.00200		mg/L			01/16/23 14:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			01/16/23 14:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			01/16/23 14:24	1
o-Xylene	<0.00200	U	0.00200		mg/L			01/16/23 14:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			01/16/23 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130					01/16/23 14:24	1
1,4-Difluorobenzene (Surr)	102		70 - 130					01/16/23 14:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0368		0.00400		mg/L			01/16/23 17:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.59	U	4.59		mg/L			01/17/23 16:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.59	U	4.59		mg/L		01/16/23 16:49	01/17/23 10:43	1
Diesel Range Organics (Over C10-C28)	<4.59	U	4.59		mg/L		01/16/23 16:49	01/17/23 10:43	1
Oil Range Organics (Over C28-C36)	<4.59	U	4.59		mg/L		01/16/23 16:49	01/17/23 10:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				01/16/23 16:49	01/17/23 10:43	1
o-Terphenyl	112		70 - 130				01/16/23 16:49	01/17/23 10:43	1

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70300		500		mg/L			01/16/23 18:39	1000

Client Sample ID: North Pond SE

Lab Sample ID: 890-3836-2

Date Collected: 01/12/23 12:00

Matrix: Water

Date Received: 01/12/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0274		0.00200		mg/L			01/16/23 14:44	1
Toluene	0.00927		0.00200		mg/L			01/16/23 14:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			01/16/23 14:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			01/16/23 14:44	1
o-Xylene	<0.00200	U	0.00200		mg/L			01/16/23 14:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			01/16/23 14:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130					01/16/23 14:44	1
1,4-Difluorobenzene (Surr)	100		70 - 130					01/16/23 14:44	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Release

Job ID: 890-3836-1
 SDG: KH227027

Client Sample ID: North Pond SE

Lab Sample ID: 890-3836-2

Date Collected: 01/12/23 12:00

Matrix: Water

Date Received: 01/12/23 14:32

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0367		0.00400		mg/L			01/16/23 17:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.55	U	4.55		mg/L			01/17/23 16:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.55	U	4.55		mg/L		01/16/23 16:49	01/17/23 11:06	1
Diesel Range Organics (Over C10-C28)	<4.55	U	4.55		mg/L		01/16/23 16:49	01/17/23 11:06	1
Oil Range Organics (Over C28-C36)	<4.55	U	4.55		mg/L		01/16/23 16:49	01/17/23 11:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	01/16/23 16:49	01/17/23 11:06	1
o-Terphenyl	126		70 - 130	01/16/23 16:49	01/17/23 11:06	1

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91400		500		mg/L			01/17/23 15:56	1000

Client Sample ID: South Pond NW

Lab Sample ID: 890-3836-3

Date Collected: 01/12/23 12:00

Matrix: Water

Date Received: 01/12/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			01/16/23 15:05	1
Toluene	<0.00200	U	0.00200		mg/L			01/16/23 15:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			01/16/23 15:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			01/16/23 15:05	1
o-Xylene	<0.00200	U	0.00200		mg/L			01/16/23 15:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			01/16/23 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130		01/16/23 15:05	1
1,4-Difluorobenzene (Surr)	105		70 - 130		01/16/23 15:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			01/16/23 17:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.56	U	4.56		mg/L			01/17/23 17:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.56	U	4.56		mg/L		01/16/23 16:49	01/17/23 09:59	1
Diesel Range Organics (Over C10-C28)	<4.56	U	4.56		mg/L		01/16/23 16:49	01/17/23 09:59	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Release

Job ID: 890-3836-1
 SDG: KH227027

Client Sample ID: South Pond NW

Lab Sample ID: 890-3836-3

Date Collected: 01/12/23 12:00

Matrix: Water

Date Received: 01/12/23 14:32

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<4.56	U	4.56		mg/L		01/16/23 16:49	01/17/23 09:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				01/16/23 16:49	01/17/23 09:59	1
o-Terphenyl	120		70 - 130				01/16/23 16:49	01/17/23 09:59	1

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	888		10.0		mg/L			01/16/23 18:51	20

Client Sample ID: South Pond SE

Lab Sample ID: 890-3836-4

Date Collected: 01/12/23 12:00

Matrix: Water

Date Received: 01/12/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			01/16/23 15:25	1
Toluene	<0.00200	U	0.00200		mg/L			01/16/23 15:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			01/16/23 15:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			01/16/23 15:25	1
o-Xylene	<0.00200	U	0.00200		mg/L			01/16/23 15:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			01/16/23 15:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130					01/16/23 15:25	1
1,4-Difluorobenzene (Surr)	105		70 - 130					01/16/23 15:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			01/16/23 17:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.55	U	4.55		mg/L			01/17/23 17:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.55	U	4.55		mg/L		01/16/23 16:49	01/17/23 10:21	1
Diesel Range Organics (Over C10-C28)	<4.55	U	4.55		mg/L		01/16/23 16:49	01/17/23 10:21	1
Oil Range Organics (Over C28-C36)	<4.55	U	4.55		mg/L		01/16/23 16:49	01/17/23 10:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				01/16/23 16:49	01/17/23 10:21	1
o-Terphenyl	131	S1+	70 - 130				01/16/23 16:49	01/17/23 10:21	1

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	819		10.0		mg/L			01/16/23 18:57	20

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Release

Job ID: 890-3836-1
 SDG: KH227027

Client Sample ID: East Release

Lab Sample ID: 890-3836-5

Date Collected: 01/12/23 13:40

Matrix: Water

Date Received: 01/12/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			01/16/23 15:46	1
Toluene	<0.00200	U	0.00200		mg/L			01/16/23 15:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			01/16/23 15:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			01/16/23 15:46	1
o-Xylene	<0.00200	U	0.00200		mg/L			01/16/23 15:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			01/16/23 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130		01/16/23 15:46	1
1,4-Difluorobenzene (Surr)	106		70 - 130		01/16/23 15:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			01/16/23 17:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.55	U	4.55		mg/L			01/17/23 17:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.55	U	4.55		mg/L		01/16/23 16:49	01/17/23 10:43	1
Diesel Range Organics (Over C10-C28)	<4.55	U	4.55		mg/L		01/16/23 16:49	01/17/23 10:43	1
Oil Range Organics (Over C28-C36)	<4.55	U	4.55		mg/L		01/16/23 16:49	01/17/23 10:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	01/16/23 16:49	01/17/23 10:43	1
o-Terphenyl	128		70 - 130	01/16/23 16:49	01/17/23 10:43	1

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	990		10.0		mg/L			01/16/23 19:19	20

Client Sample ID: West Release

Lab Sample ID: 890-3836-6

Date Collected: 01/12/23 13:45

Matrix: Water

Date Received: 01/12/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			01/16/23 16:06	1
Toluene	<0.00200	U	0.00200		mg/L			01/16/23 16:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			01/16/23 16:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			01/16/23 16:06	1
o-Xylene	<0.00200	U	0.00200		mg/L			01/16/23 16:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			01/16/23 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130		01/16/23 16:06	1
1,4-Difluorobenzene (Surr)	104		70 - 130		01/16/23 16:06	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Release

Job ID: 890-3836-1
 SDG: KH227027

Client Sample ID: West Release

Lab Sample ID: 890-3836-6

Date Collected: 01/12/23 13:45

Matrix: Water

Date Received: 01/12/23 14:32

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			01/16/23 17:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.56	U	4.56		mg/L			01/17/23 17:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.56	U	4.56		mg/L		01/16/23 16:49	01/17/23 11:06	1
Diesel Range Organics (Over C10-C28)	<4.56	U	4.56		mg/L		01/16/23 16:49	01/17/23 11:06	1
Oil Range Organics (Over C28-C36)	<4.56	U	4.56		mg/L		01/16/23 16:49	01/17/23 11:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				01/16/23 16:49	01/17/23 11:06	1
o-Terphenyl	134	S1+	70 - 130				01/16/23 16:49	01/17/23 11:06	1

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1010		10.0		mg/L			01/16/23 19:25	20

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Release

Job ID: 890-3836-1
SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-3808-A-1-D MS	Matrix Spike	111	102
890-3808-A-1-E MSD	Matrix Spike Duplicate	112	103
890-3836-1	North Pond NW	111	102
890-3836-2	North Pond SE	108	100
890-3836-3	South Pond NW	119	105
890-3836-4	South Pond SE	117	105
890-3836-5	East Release	123	106
890-3836-6	West Release	121	104
LCS 880-43748/1-A	Lab Control Sample	111	100
LCS 880-43960/3	Lab Control Sample	107	102
LCSD 880-43748/2-A	Lab Control Sample Dup	112	105
LCSD 880-43960/4	Lab Control Sample Dup	112	103
MB 880-43960/8	Method Blank	110	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-3836-1	North Pond NW	119	112
890-3836-2	North Pond SE	136 S1+	126
890-3836-3	South Pond NW	112	120
890-3836-4	South Pond SE	120	131 S1+
890-3836-5	East Release	118	128
890-3836-6	West Release	124	134 S1+
LCS 880-44056/2-A	Lab Control Sample	160 S1+	154 S1+
LCSD 880-44056/3-A	Lab Control Sample Dup	113	97
MB 880-44056/1-A	Method Blank	102	100
MB 880-44056/1-A	Method Blank	89	101

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Release

Job ID: 890-3836-1
 SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: LCS 880-43748/1-A
 Matrix: Water
 Analysis Batch: 43960

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 43748

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1121		mg/L		112	70 - 130
Toluene	0.100	0.1077		mg/L		108	70 - 130
Ethylbenzene	0.100	0.1052		mg/L		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2165		mg/L		108	70 - 130
o-Xylene	0.100	0.1024		mg/L		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-43748/2-A
 Matrix: Water
 Analysis Batch: 43960

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 43748

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1159		mg/L		116	70 - 130	3	20
Toluene	0.100	0.1086		mg/L		109	70 - 130	1	20
Ethylbenzene	0.100	0.1066		mg/L		107	70 - 130	1	20
m-Xylene & p-Xylene	0.200	0.2192		mg/L		110	70 - 130	1	20
o-Xylene	0.100	0.1045		mg/L		105	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-3808-A-1-D MS
 Matrix: Water
 Analysis Batch: 43960

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 43748

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.101	0.09870		mg/L		98	70 - 130
Toluene	<0.00200	U	0.101	0.09623		mg/L		95	70 - 130
Ethylbenzene	<0.00200	U	0.101	0.09472		mg/L		94	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.202	0.1946		mg/L		96	70 - 130
o-Xylene	<0.00200	U	0.101	0.09494		mg/L		94	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-3808-A-1-E MSD
 Matrix: Water
 Analysis Batch: 43960

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 43748

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.1006		mg/L		101	70 - 130	2	25
Toluene	<0.00200	U	0.0996	0.09733		mg/L		98	70 - 130	1	25
Ethylbenzene	<0.00200	U	0.0996	0.09546		mg/L		96	70 - 130	1	25

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Release

Job ID: 890-3836-1
 SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3808-A-1-E MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 43960

Prep Batch: 43748

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		Limit
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1956		mg/L		98	70 - 130	1	25
o-Xylene	<0.00200	U	0.0996	0.09472		mg/L		95	70 - 130	0	25
Surrogate	MSD	MSD	Limits								
	%Recovery	Qualifier									
4-Bromofluorobenzene (Surr)	112		70 - 130								
1,4-Difluorobenzene (Surr)	103		70 - 130								

Lab Sample ID: MB 880-43960/8

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 43960

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier								
Benzene	<0.00200	U	0.00200		mg/L			01/16/23 12:24	1	
Toluene	<0.00200	U	0.00200		mg/L			01/16/23 12:24	1	
Ethylbenzene	<0.00200	U	0.00200		mg/L			01/16/23 12:24	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			01/16/23 12:24	1	
o-Xylene	<0.00200	U	0.00200		mg/L			01/16/23 12:24	1	
Xylenes, Total	<0.00400	U	0.00400		mg/L			01/16/23 12:24	1	
Surrogate	MB	MB	Limits							
	%Recovery	Qualifier		Prepared	Analyzed	Dil Fac				
4-Bromofluorobenzene (Surr)	110		70 - 130		01/16/23 12:24	1				
1,4-Difluorobenzene (Surr)	99		70 - 130		01/16/23 12:24	1				

Lab Sample ID: LCS 880-43960/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 43960

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Benzene	0.100	0.08048		mg/L		80	70 - 130
Toluene	0.100	0.07590		mg/L		76	70 - 130
Ethylbenzene	0.100	0.07495		mg/L		75	70 - 130
m-Xylene & p-Xylene	0.200	0.1570		mg/L		78	70 - 130
o-Xylene	0.100	0.07607		mg/L		76	70 - 130
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
4-Bromofluorobenzene (Surr)	107		70 - 130				
1,4-Difluorobenzene (Surr)	102		70 - 130				

Lab Sample ID: LCSD 880-43960/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 43960

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
		Result	Qualifier				Limits		Limit
Benzene	0.100	0.09731		mg/L		97	70 - 130	19	20
Toluene	0.100	0.09297		mg/L		93	70 - 130	20	20
Ethylbenzene	0.100	0.09031		mg/L		90	70 - 130	19	20
m-Xylene & p-Xylene	0.200	0.1867		mg/L		93	70 - 130	17	20
o-Xylene	0.100	0.09010		mg/L		90	70 - 130	17	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Release

Job ID: 890-3836-1
 SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-44056/1-A
 Matrix: Water
 Analysis Batch: 44121

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 44056

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<5.00	U	5.00		mg/L		01/16/23 16:49	01/17/23 08:06	1
Gasoline Range Organics (GRO)-C6-C10	<5.00	U	5.00		mg/L		01/16/23 16:49	01/17/23 08:06	1
Diesel Range Organics (Over C10-C28)	<5.00	U	5.00		mg/L		01/16/23 16:49	01/17/23 08:06	1
Diesel Range Organics (Over C10-C28)	<5.00	U	5.00		mg/L		01/16/23 16:49	01/17/23 08:06	1
Oil Range Organics (Over C28-C36)	<5.00	U	5.00		mg/L		01/16/23 16:49	01/17/23 08:06	1
Oil Range Organics (Over C28-C36)	<5.00	U	5.00		mg/L		01/16/23 16:49	01/17/23 08:06	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	102		70 - 130	01/16/23 16:49	01/17/23 08:06	1
1-Chlorooctane	89		70 - 130	01/16/23 16:49	01/17/23 08:06	1
o-Terphenyl	100		70 - 130	01/16/23 16:49	01/17/23 08:06	1
o-Terphenyl	101		70 - 130	01/16/23 16:49	01/17/23 08:06	1

Lab Sample ID: LCS 880-44056/2-A
 Matrix: Water
 Analysis Batch: 44121

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 44056

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	100	87.47		mg/L		87	75 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	160	S1+	70 - 130
o-Terphenyl	154	S1+	70 - 130

Lab Sample ID: LCSD 880-44056/3-A
 Matrix: Water
 Analysis Batch: 44121

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 44056

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	100	94.78		mg/L		95	75 - 125	17	20
Diesel Range Organics (Over C10-C28)	100	82.06		mg/L		82	75 - 125	6	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	113		70 - 130

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Release

Job ID: 890-3836-1
 SDG: KH227027

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-44056/3-A
 Matrix: Water
 Analysis Batch: 44121

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 44056

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	97		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44139/3
 Matrix: Water
 Analysis Batch: 44139

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.500	U	0.500		mg/L			01/16/23 17:51	1

Lab Sample ID: LCS 880-44139/4
 Matrix: Water
 Analysis Batch: 44139

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	25.65		mg/L		103	90 - 110

Lab Sample ID: LCSD 880-44139/5
 Matrix: Water
 Analysis Batch: 44139

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0	25.66		mg/L		103	90 - 110	0	20

Lab Sample ID: 880-23714-A-1 MS
 Matrix: Water
 Analysis Batch: 44139

Client Sample ID: Matrix Spike
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.34		25.0	32.28		mg/L		108	90 - 110

Lab Sample ID: 880-23714-A-1 MSD
 Matrix: Water
 Analysis Batch: 44139

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.34		25.0	32.47		mg/L		109	90 - 110	1	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Release

Job ID: 890-3836-1
 SDG: KH227027

GC VOA

Prep Batch: 43748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-43748/1-A	Lab Control Sample	Total/NA	Water	5035	
LCSD 880-43748/2-A	Lab Control Sample Dup	Total/NA	Water	5035	
890-3808-A-1-D MS	Matrix Spike	Total/NA	Water	5035	
890-3808-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	5035	

Analysis Batch: 43960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3836-1	North Pond NW	Total/NA	Water	8021B	
890-3836-2	North Pond SE	Total/NA	Water	8021B	
890-3836-3	South Pond NW	Total/NA	Water	8021B	
890-3836-4	South Pond SE	Total/NA	Water	8021B	
890-3836-5	East Release	Total/NA	Water	8021B	
890-3836-6	West Release	Total/NA	Water	8021B	
MB 880-43960/8	Method Blank	Total/NA	Water	8021B	
LCS 880-43748/1-A	Lab Control Sample	Total/NA	Water	8021B	43748
LCS 880-43960/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-43748/2-A	Lab Control Sample Dup	Total/NA	Water	8021B	43748
LCSD 880-43960/4	Lab Control Sample Dup	Total/NA	Water	8021B	
890-3808-A-1-D MS	Matrix Spike	Total/NA	Water	8021B	43748
890-3808-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	43748

Analysis Batch: 44119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3836-1	North Pond NW	Total/NA	Water	Total BTEX	
890-3836-2	North Pond SE	Total/NA	Water	Total BTEX	
890-3836-3	South Pond NW	Total/NA	Water	Total BTEX	
890-3836-4	South Pond SE	Total/NA	Water	Total BTEX	
890-3836-5	East Release	Total/NA	Water	Total BTEX	
890-3836-6	West Release	Total/NA	Water	Total BTEX	

GC Semi VOA

Prep Batch: 44056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3836-1	North Pond NW	Total/NA	Water	8015NM Aq Prep	
890-3836-2	North Pond SE	Total/NA	Water	8015NM Aq Prep	
890-3836-3	South Pond NW	Total/NA	Water	8015NM Aq Prep	
890-3836-4	South Pond SE	Total/NA	Water	8015NM Aq Prep	
890-3836-5	East Release	Total/NA	Water	8015NM Aq Prep	
890-3836-6	West Release	Total/NA	Water	8015NM Aq Prep	
MB 880-44056/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 880-44056/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 880-44056/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 44121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3836-1	North Pond NW	Total/NA	Water	8015B NM	44056
890-3836-2	North Pond SE	Total/NA	Water	8015B NM	44056
MB 880-44056/1-A	Method Blank	Total/NA	Water	8015B NM	44056
LCS 880-44056/2-A	Lab Control Sample	Total/NA	Water	8015B NM	44056
LCSD 880-44056/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	44056

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Release

Job ID: 890-3836-1
 SDG: KH227027

GC Semi VOA

Analysis Batch: 44123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3836-3	South Pond NW	Total/NA	Water	8015B NM	44056
890-3836-4	South Pond SE	Total/NA	Water	8015B NM	44056
890-3836-5	East Release	Total/NA	Water	8015B NM	44056
890-3836-6	West Release	Total/NA	Water	8015B NM	44056
MB 880-44056/1-A	Method Blank	Total/NA	Water	8015B NM	44056

Analysis Batch: 44202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3836-1	North Pond NW	Total/NA	Water	8015 NM	
890-3836-2	North Pond SE	Total/NA	Water	8015 NM	
890-3836-3	South Pond NW	Total/NA	Water	8015 NM	
890-3836-4	South Pond SE	Total/NA	Water	8015 NM	
890-3836-5	East Release	Total/NA	Water	8015 NM	
890-3836-6	West Release	Total/NA	Water	8015 NM	

HPLC/IC

Analysis Batch: 44139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3836-1	North Pond NW	Total/NA	Water	300.0	
890-3836-2	North Pond SE	Total/NA	Water	300.0	
890-3836-3	South Pond NW	Total/NA	Water	300.0	
890-3836-4	South Pond SE	Total/NA	Water	300.0	
890-3836-5	East Release	Total/NA	Water	300.0	
890-3836-6	West Release	Total/NA	Water	300.0	
MB 880-44139/3	Method Blank	Total/NA	Water	300.0	
LCS 880-44139/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-44139/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-23714-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
880-23714-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Release

Job ID: 890-3836-1
 SDG: KH227027

Client Sample ID: North Pond NW

Lab Sample ID: 890-3836-1

Date Collected: 01/12/23 12:00

Matrix: Water

Date Received: 01/12/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	43960	01/16/23 14:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44119	01/16/23 17:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44202	01/17/23 16:53	SM	EET MID
Total/NA	Prep	8015NM Aq Prep			32.7 mL	3 mL	44056	01/16/23 16:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44121	01/17/23 10:43	SM	EET MID
Total/NA	Analysis	300.0		1000			44139	01/16/23 18:39	CH	EET MID

Client Sample ID: North Pond SE

Lab Sample ID: 890-3836-2

Date Collected: 01/12/23 12:00

Matrix: Water

Date Received: 01/12/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	43960	01/16/23 14:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44119	01/16/23 17:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44202	01/17/23 16:53	SM	EET MID
Total/NA	Prep	8015NM Aq Prep			33 mL	3 mL	44056	01/16/23 16:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44121	01/17/23 11:06	SM	EET MID
Total/NA	Analysis	300.0		1000			44139	01/17/23 15:56	CH	EET MID

Client Sample ID: South Pond NW

Lab Sample ID: 890-3836-3

Date Collected: 01/12/23 12:00

Matrix: Water

Date Received: 01/12/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	43960	01/16/23 15:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44119	01/16/23 17:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44202	01/17/23 17:01	SM	EET MID
Total/NA	Prep	8015NM Aq Prep			32.9 mL	3 mL	44056	01/16/23 16:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44123	01/17/23 09:59	SM	EET MID
Total/NA	Analysis	300.0		20			44139	01/16/23 18:51	CH	EET MID

Client Sample ID: South Pond SE

Lab Sample ID: 890-3836-4

Date Collected: 01/12/23 12:00

Matrix: Water

Date Received: 01/12/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	43960	01/16/23 15:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44119	01/16/23 17:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44202	01/17/23 17:01	SM	EET MID
Total/NA	Prep	8015NM Aq Prep			33 mL	3 mL	44056	01/16/23 16:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44123	01/17/23 10:21	SM	EET MID
Total/NA	Analysis	300.0		20			44139	01/16/23 18:57	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Release

Job ID: 890-3836-1
 SDG: KH227027

Client Sample ID: East Release

Lab Sample ID: 890-3836-5

Date Collected: 01/12/23 13:40

Matrix: Water

Date Received: 01/12/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	43960	01/16/23 15:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44119	01/16/23 17:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44202	01/17/23 17:01	SM	EET MID
Total/NA	Prep	8015NM Aq Prep			33 mL	3 mL	44056	01/16/23 16:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44123	01/17/23 10:43	SM	EET MID
Total/NA	Analysis	300.0		20			44139	01/16/23 19:19	CH	EET MID

Client Sample ID: West Release

Lab Sample ID: 890-3836-6

Date Collected: 01/12/23 13:45

Matrix: Water

Date Received: 01/12/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	43960	01/16/23 16:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44119	01/16/23 17:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44202	01/17/23 17:01	SM	EET MID
Total/NA	Prep	8015NM Aq Prep			32.9 mL	3 mL	44056	01/16/23 16:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44123	01/17/23 11:06	SM	EET MID
Total/NA	Analysis	300.0		20			44139	01/16/23 19:25	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Release

Job ID: 890-3836-1
SDG: KH227027

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0		Water	Chloride
8015 NM		Water	Total TPH
Total BTEX		Water	Total BTEX

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Release

Job ID: 890-3836-1
SDG: KH227027

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Aq Prep	Microextraction	SW846	EET MID

Protocol References:

- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Release

Job ID: 890-3836-1
SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-3836-1	North Pond NW	Water	01/12/23 12:00	01/12/23 14:32
890-3836-2	North Pond SE	Water	01/12/23 12:00	01/12/23 14:32
890-3836-3	South Pond NW	Water	01/12/23 12:00	01/12/23 14:32
890-3836-4	South Pond SE	Water	01/12/23 12:00	01/12/23 14:32
890-3836-5	East Release	Water	01/12/23 13:40	01/12/23 14:32
890-3836-6	West Release	Water	01/12/23 13:45	01/12/23 14:32

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CHAIN OF CUSTODY RECORD



Laboratory:
Address:

Office Location: 4502 W. Pierce St Carlsbad NM, 88220

Phone:

Project Manager: Mike Adams
Sampler's Name: Travis Casey

Contact:

SRS #:
Sampler's Signature

Project Number: KH227027

Project Name: Mobile Water Release

No. Type of Containers

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	4 oz Glass	2 oz Glass	250 ml Poly
	1-12-23				North Pond NW					X
					North Pond SE					
					South Pond NW					
					South Pond SE					
					East Release					
					West Release					

Chloride (EPA Method 300)
TPH Extended 8015
BTEX (EPA Method 8021B)

ANALYSIS REQUEST

LAB USE ONLY/DATE:

TEMP OF COOLER WHEN RECEIVED (C): 2.2 / 2.0
In. 0.07

Lab Sample ID



TURNAROUND TIME: Normal 48-Hour Rush 24-Hour Rush

TRRP Laboratory Review Checklist

Received by (Signature)	Date:	Time:	Received by (Signature)	Date:	Time:
<i>[Signature]</i>	1-12-23		<i>[Signature]</i>	1-22-23	14:30
<i>[Signature]</i>			<i>[Signature]</i>		
<i>[Signature]</i>			<i>[Signature]</i>		

Bill To Yes No

e-mail results to:
joseph.guestner@terracon.com
travis.casey@terracon.com
mike.adams@terracon.com

Matrix: WW-Wastewater W - Water S - Soil L - Liq A - Air Bag C - Charcoal tube SL - Sludge
Container: VOA - 40 ml vial A/G - Amber Gla 250 ml = Glass wide P/O - Plastic or other

Lubbock Office ■ 5827 50th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-3836-1

SDG Number: KH227027

Login Number: 3836

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-3836-1

SDG Number: KH227027

Login Number: 3836

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 01/16/23 02:08 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
 Terracon Consulting Eng & Scientists
 5847 50th St
 Lubbock, Texas 79424
 Generated 2/24/2023 2:09:37 PM

JOB DESCRIPTION

Mobley Water
 SDG NUMBER Eddy

JOB NUMBER

890-4131-1



Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
2/24/2023 2:09:37 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

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Eurofins Carlsbad

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water

Laboratory Job ID: 890-4131-1
SDG: Eddy

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water

Job ID: 890-4131-1
SDG: Eddy

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water

Job ID: 890-4131-1
SDG: Eddy

Job ID: 890-4131-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-4131-1**

Receipt

The samples were received on 2/17/2023 10:19 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: N-SW01 (890-4131-1), E-SW01 (890-4131-2) and FS04 (890-4131-3).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-47003 and analytical batch 880-46994 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water

Job ID: 890-4131-1
 SDG: Eddy

Client Sample ID: N-SW01

Lab Sample ID: 890-4131-1

Date Collected: 02/17/23 08:00

Matrix: Solid

Date Received: 02/17/23 10:19

Sample Depth: 0-4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/23/23 09:25	02/24/23 05:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/23/23 09:25	02/24/23 05:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/23/23 09:25	02/24/23 05:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/23/23 09:25	02/24/23 05:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/23/23 09:25	02/24/23 05:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/23/23 09:25	02/24/23 05:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	02/23/23 09:25	02/24/23 05:36	1
1,4-Difluorobenzene (Surr)	76		70 - 130	02/23/23 09:25	02/24/23 05:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/24/23 14:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/23/23 16:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		02/23/23 09:12	02/23/23 15:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/23/23 09:12	02/23/23 15:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/23 09:12	02/23/23 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	02/23/23 09:12	02/23/23 15:43	1
o-Terphenyl	90		70 - 130	02/23/23 09:12	02/23/23 15:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	420		4.97		mg/Kg			02/23/23 03:16	1

Client Sample ID: E-SW01

Lab Sample ID: 890-4131-2

Date Collected: 02/17/23 08:05

Matrix: Solid

Date Received: 02/17/23 10:19

Sample Depth: 0-4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/24/23 05:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/24/23 05:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/24/23 05:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/23/23 09:25	02/24/23 05:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/24/23 05:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/23/23 09:25	02/24/23 05:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	02/23/23 09:25	02/24/23 05:56	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water

Job ID: 890-4131-1
 SDG: Eddy

Client Sample ID: E-SW01

Lab Sample ID: 890-4131-2

Date Collected: 02/17/23 08:05

Matrix: Solid

Date Received: 02/17/23 10:19

Sample Depth: 0-4'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83		70 - 130	02/23/23 09:25	02/24/23 05:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/24/23 14:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/24/23 13:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		02/23/23 09:12	02/23/23 16:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/23/23 09:12	02/23/23 16:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/23/23 09:12	02/23/23 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	02/23/23 09:12	02/23/23 16:28	1
o-Terphenyl	102		70 - 130	02/23/23 09:12	02/23/23 16:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.0		5.00		mg/Kg			02/23/23 03:23	1

Client Sample ID: FS04

Lab Sample ID: 890-4131-3

Date Collected: 02/17/23 08:34

Matrix: Solid

Date Received: 02/17/23 10:19

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/24/23 06:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/24/23 06:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/24/23 06:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/23/23 09:25	02/24/23 06:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/24/23 06:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/23/23 09:25	02/24/23 06:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	02/23/23 09:25	02/24/23 06:17	1
1,4-Difluorobenzene (Surr)	84		70 - 130	02/23/23 09:25	02/24/23 06:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/24/23 14:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/24/23 13:21	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water

Job ID: 890-4131-1
 SDG: Eddy

Client Sample ID: FS04

Lab Sample ID: 890-4131-3

Date Collected: 02/17/23 08:34

Matrix: Solid

Date Received: 02/17/23 10:19

Sample Depth: 4'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		02/23/23 09:12	02/23/23 16:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/23/23 09:12	02/23/23 16:50	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/23 09:12	02/23/23 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	02/23/23 09:12	02/23/23 16:50	1
o-Terphenyl	93		70 - 130	02/23/23 09:12	02/23/23 16:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	324		4.95		mg/Kg			02/23/23 03:29	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water

Job ID: 890-4131-1
 SDG: Eddy

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4131-1	N-SW01	88	76
890-4131-2	E-SW01	110	83
890-4131-3	FS04	80	84
LCS 880-47007/1-A	Lab Control Sample	122	100
LCSD 880-47007/2-A	Lab Control Sample Dup	110	104
MB 880-47001/5-A	Method Blank	76	87
MB 880-47007/5-A	Method Blank	78	94

Surrogate Legend
 BFB = 4-Bromofluorobenzene (Surr)
 DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4131-1	N-SW01	84	90
890-4131-2	E-SW01	90	102
890-4131-3	FS04	85	93
LCS 880-47003/2-A	Lab Control Sample	107	116
LCSD 880-47003/3-A	Lab Control Sample Dup	75	85
MB 880-47003/1-A	Method Blank	110	131 S1+

Surrogate Legend
 1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water

Job ID: 890-4131-1
 SDG: Eddy

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47001/5-A
 Matrix: Solid
 Analysis Batch: 47000

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 47001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/23/23 08:38	02/23/23 11:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/23/23 08:38	02/23/23 11:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/23/23 08:38	02/23/23 11:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/23/23 08:38	02/23/23 11:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/23/23 08:38	02/23/23 11:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/23/23 08:38	02/23/23 11:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	02/23/23 08:38	02/23/23 11:47	1
1,4-Difluorobenzene (Surr)	87		70 - 130	02/23/23 08:38	02/23/23 11:47	1

Lab Sample ID: MB 880-47007/5-A
 Matrix: Solid
 Analysis Batch: 47000

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 47007

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/23/23 23:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/23/23 23:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/23/23 23:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/23/23 09:25	02/23/23 23:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/23/23 23:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/23/23 09:25	02/23/23 23:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	02/23/23 09:25	02/23/23 23:25	1
1,4-Difluorobenzene (Surr)	94		70 - 130	02/23/23 09:25	02/23/23 23:25	1

Lab Sample ID: LCS 880-47007/1-A
 Matrix: Solid
 Analysis Batch: 47000

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 47007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09393		mg/Kg		94	70 - 130
Toluene	0.100	0.09350		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.1024		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2149		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1176		mg/Kg		118	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-47007/2-A
 Matrix: Solid
 Analysis Batch: 47000

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 47007

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08161		mg/Kg		82	70 - 130	14	35

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water

Job ID: 890-4131-1
 SDG: Eddy

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-47007/2-A
 Matrix: Solid
 Analysis Batch: 47000

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 47007

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD
							Limits	RPD	
Toluene	0.100	0.08564		mg/Kg		86	70 - 130	9	35
Ethylbenzene	0.100	0.09059		mg/Kg		91	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1900		mg/Kg		95	70 - 130	12	35
o-Xylene	0.100	0.09988		mg/Kg		100	70 - 130	16	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-47003/1-A
 Matrix: Solid
 Analysis Batch: 46994

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 47003

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/23/23 09:12	02/23/23 08:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/23 09:12	02/23/23 08:36	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	110		70 - 130	02/23/23 09:12	02/23/23 08:36	1
o-Terphenyl	131	S1+	70 - 130	02/23/23 09:12	02/23/23 08:36	1

Lab Sample ID: LCS 880-47003/2-A
 Matrix: Solid
 Analysis Batch: 46994

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 47003

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	1000	1174		mg/Kg		117	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1103		mg/Kg		110	70 - 130	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	107		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: LCSD 880-47003/3-A
 Matrix: Solid
 Analysis Batch: 46994

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 47003

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD
							Limits	RPD	
Gasoline Range Organics (GRO)-C6-C10	1000	908.0	*1	mg/Kg		91	70 - 130	26	20
Diesel Range Organics (Over C10-C28)	1000	806.6	*1	mg/Kg		81	70 - 130	31	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water

Job ID: 890-4131-1
 SDG: Eddy

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-47003/3-A
 Matrix: Solid
 Analysis Batch: 46994

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 47003

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	85		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46847/1-A
 Matrix: Solid
 Analysis Batch: 46985

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/23/23 01:57	1

Lab Sample ID: LCS 880-46847/2-A
 Matrix: Solid
 Analysis Batch: 46985

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	245.9		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-46847/3-A
 Matrix: Solid
 Analysis Batch: 46985

Client Sample ID: Lab Control Sample Dup
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	254.3		mg/Kg		102	90 - 110	3	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley WaterJob ID: 890-4131-1
SDG: Eddy

GC VOA

Analysis Batch: 47000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4131-1	N-SW01	Total/NA	Solid	8021B	47007
890-4131-2	E-SW01	Total/NA	Solid	8021B	47007
890-4131-3	FS04	Total/NA	Solid	8021B	47007
MB 880-47001/5-A	Method Blank	Total/NA	Solid	8021B	47001
MB 880-47007/5-A	Method Blank	Total/NA	Solid	8021B	47007
LCS 880-47007/1-A	Lab Control Sample	Total/NA	Solid	8021B	47007
LCSD 880-47007/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47007

Prep Batch: 47001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47001/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 47007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4131-1	N-SW01	Total/NA	Solid	5035	
890-4131-2	E-SW01	Total/NA	Solid	5035	
890-4131-3	FS04	Total/NA	Solid	5035	
MB 880-47007/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47007/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47007/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 47197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4131-1	N-SW01	Total/NA	Solid	Total BTEX	
890-4131-2	E-SW01	Total/NA	Solid	Total BTEX	
890-4131-3	FS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 46994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4131-1	N-SW01	Total/NA	Solid	8015B NM	47003
890-4131-2	E-SW01	Total/NA	Solid	8015B NM	47003
890-4131-3	FS04	Total/NA	Solid	8015B NM	47003
MB 880-47003/1-A	Method Blank	Total/NA	Solid	8015B NM	47003
LCS 880-47003/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47003
LCSD 880-47003/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47003

Prep Batch: 47003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4131-1	N-SW01	Total/NA	Solid	8015NM Prep	
890-4131-2	E-SW01	Total/NA	Solid	8015NM Prep	
890-4131-3	FS04	Total/NA	Solid	8015NM Prep	
MB 880-47003/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47003/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47003/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4131-1	N-SW01	Total/NA	Solid	8015 NM	
890-4131-2	E-SW01	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water

Job ID: 890-4131-1
 SDG: Eddy

GC Semi VOA (Continued)

Analysis Batch: 47113 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4131-3	FS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 46847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4131-1	N-SW01	Soluble	Solid	DI Leach	
890-4131-2	E-SW01	Soluble	Solid	DI Leach	
890-4131-3	FS04	Soluble	Solid	DI Leach	
MB 880-46847/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46847/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46847/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 46985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4131-1	N-SW01	Soluble	Solid	300.0	46847
890-4131-2	E-SW01	Soluble	Solid	300.0	46847
890-4131-3	FS04	Soluble	Solid	300.0	46847
MB 880-46847/1-A	Method Blank	Soluble	Solid	300.0	46847
LCS 880-46847/2-A	Lab Control Sample	Soluble	Solid	300.0	46847
LCSD 880-46847/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46847

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water

Job ID: 890-4131-1
 SDG: Eddy

Client Sample ID: N-SW01

Lab Sample ID: 890-4131-1

Date Collected: 02/17/23 08:00

Matrix: Solid

Date Received: 02/17/23 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	47007	02/23/23 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47000	02/24/23 05:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47197	02/24/23 14:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47113	02/23/23 16:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47003	02/23/23 09:12	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46994	02/23/23 15:43	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46847	02/21/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46985	02/23/23 03:16	CH	EET MID

Client Sample ID: E-SW01

Lab Sample ID: 890-4131-2

Date Collected: 02/17/23 08:05

Matrix: Solid

Date Received: 02/17/23 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	47007	02/23/23 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47000	02/24/23 05:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47197	02/24/23 14:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47113	02/24/23 13:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47003	02/23/23 09:12	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46994	02/23/23 16:28	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46847	02/21/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46985	02/23/23 03:23	CH	EET MID

Client Sample ID: FS04

Lab Sample ID: 890-4131-3

Date Collected: 02/17/23 08:34

Matrix: Solid

Date Received: 02/17/23 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	47007	02/23/23 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47000	02/24/23 06:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47197	02/24/23 14:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47113	02/24/23 13:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47003	02/23/23 09:12	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46994	02/23/23 16:50	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46847	02/21/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46985	02/23/23 03:29	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water

Job ID: 890-4131-1
SDG: Eddy

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water

Job ID: 890-4131-1
SDG: Eddy

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water

Job ID: 890-4131-1
SDG: Eddy

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4131-1	N-SW01	Solid	02/17/23 08:00	02/17/23 10:19	0-4'
890-4131-2	E-SW01	Solid	02/17/23 08:05	02/17/23 10:19	0-4'
890-4131-3	FS04	Solid	02/17/23 08:34	02/17/23 10:19	4'

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
 El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing
Xenco



Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	<i>Joe Guzman</i>	Bill to: (if different)	
Company Name:	<i>Terraco</i>	Company Name:	
Address:	<i>4518 W Pierce St</i>	Address:	
City, State ZIP:	<i>Carlsbad, NM 88220</i>	City, State ZIP:	
Phone:	<i>(575) 689-5949</i>	Email:	<i>imfrienel@terraco.com</i>

Project Name:	<i>Mobility water</i>	Turn Around	<input type="checkbox"/> Routine <input type="checkbox"/> Rush
Project Number:	<i>KH227827</i>	Due Date:	
Project Location:	<i>Eddy</i>	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	<i>Bucky Miller</i>	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
PO #:		Thermometer ID:	<i>11M-007</i>
SAMPLE RECEIPT		Temp Blank:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:	<i>-0.0</i>
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Temperature Reading:	<i>1.0</i>
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Corrected Temperature:	<i>0.8</i>
Total Containers:			



Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Preservative Codes	Sample Comments
<i>N-SW01</i>	<i>S</i>		<i>8:00</i>	<i>0-4'</i>	<i>C</i>	<i>1</i>	<i>Ascorbic (300)</i>	None: NO Cool: Cool HCl: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SACP	
<i>E-SW01</i>	<i>S</i>		<i>8:05</i>	<i>0-4'</i>	<i>C</i>	<i>1</i>	<i>BTEX (80218)</i>		
<i>FS04</i>	<i>S</i>		<i>8:34</i>	<i>4'</i>	<i>C</i>	<i>1</i>	<i>PHH (8015)</i>		

Total 200.7 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Bucky Miller</i>	<i>Armando Lopez</i>	<i>2-17-23 10:19</i>			

bucky.suc.miller@terraco.com & *Guo.Sanchez@terraco.com* & *travis.cassey@terraco.com*

Revised Date: 08/25/2020 Rev: 2020.2

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4131-1

SDG Number: Eddy

Login Number: 4131

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4131-1

SDG Number: Eddy

Login Number: 4131

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland
List Creation: 02/21/23 08:18 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
 Terracon Consulting Eng & Scientists
 5847 50th St
 Lubbock, Texas 79424
 Generated 10/3/2023 11:53:55 AM

JOB DESCRIPTION

MOBLEY WATER
 SDG NUMBER KH227027

JOB NUMBER

890-5373-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
10/3/2023 11:53:55 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

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Eurofins Carlsbad

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification # 02015.

VL = field staff performs tests under NJ State certification # 06005.

WG = field staff performs tests under NJ State certification # PA001, PA State certification # 48-01334.

H = field staff performs tests under NJ NELAP certification # PA093, PA NELAP certification # 46-05499.

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists
Project/Site: MOBLEY WATER

Laboratory Job ID: 890-5373-1
SDG: KH227027

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: MOBLEY WATER

Job ID: 890-5373-1
SDG: KH227027

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: MOBLEY WATER

Job ID: 890-5373-1
SDG: KH227027

Job ID: 890-5373-1

Laboratory: Eurofins Carlsbad**Narrative****Job Narrative
890-5373-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/29/2023 9:54 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: N-SW-02.2 (890-5373-1), W-SW-02.1 (890-5373-2), W-SW-03.2 (890-5373-3), W-SW-04.2 (890-5373-4), W-SW-05.2 (890-5373-5), W-SW-06.2 (890-5373-6) and S-SW-01.2 (890-5373-7).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-63670 and analytical batch 880-63715 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-63769 and analytical batch 880-63710 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-63721 and analytical batch 880-63754 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: MOBLEY WATER

Job ID: 890-5373-1
 SDG: KH227027

Client Sample ID: N-SW-02.2

Lab Sample ID: 890-5373-1

Date Collected: 09/28/23 16:00

Matrix: Solid

Date Received: 09/29/23 09:54

Sample Depth: 0-5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 12:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 12:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 12:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/29/23 16:40	10/02/23 12:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 12:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/29/23 16:40	10/02/23 12:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	09/29/23 16:40	10/02/23 12:29	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/29/23 16:40	10/02/23 12:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/02/23 12:29	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			10/02/23 21:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		10/02/23 15:31	10/02/23 21:01	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		10/02/23 15:31	10/02/23 21:01	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		10/02/23 15:31	10/02/23 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	10/02/23 15:31	10/02/23 21:01	1
o-Terphenyl	97		70 - 130	10/02/23 15:31	10/02/23 21:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	199	F1	4.96		mg/Kg			10/02/23 13:24	1

Client Sample ID: W-SW-02.1

Lab Sample ID: 890-5373-2

Date Collected: 09/28/23 16:38

Matrix: Solid

Date Received: 09/29/23 09:54

Sample Depth: 0-5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 12:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 12:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 12:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/29/23 16:40	10/02/23 12:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 12:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/29/23 16:40	10/02/23 12:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	09/29/23 16:40	10/02/23 12:49	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: MOBLEY WATER

Job ID: 890-5373-1
 SDG: KH227027

Client Sample ID: W-SW-02.1

Lab Sample ID: 890-5373-2

Date Collected: 09/28/23 16:38

Matrix: Solid

Date Received: 09/29/23 09:54

Sample Depth: 0-5'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130	09/29/23 16:40	10/02/23 12:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/02/23 12:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			10/02/23 22:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		10/02/23 15:31	10/02/23 22:07	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		10/02/23 15:31	10/02/23 22:07	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/02/23 15:31	10/02/23 22:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	10/02/23 15:31	10/02/23 22:07	1
o-Terphenyl	101		70 - 130	10/02/23 15:31	10/02/23 22:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		4.99		mg/Kg			10/02/23 13:44	1

Client Sample ID: W-SW-03.2

Lab Sample ID: 890-5373-3

Date Collected: 09/28/23 16:50

Matrix: Solid

Date Received: 09/29/23 09:54

Sample Depth: 0-5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/29/23 16:40	10/02/23 13:10	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/29/23 16:40	10/02/23 13:10	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/29/23 16:40	10/02/23 13:10	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/29/23 16:40	10/02/23 13:10	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/29/23 16:40	10/02/23 13:10	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/29/23 16:40	10/02/23 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	09/29/23 16:40	10/02/23 13:10	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/29/23 16:40	10/02/23 13:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/02/23 13:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			10/02/23 22:29	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: MOBLEY WATER

Job ID: 890-5373-1
 SDG: KH227027

Client Sample ID: W-SW-03.2

Lab Sample ID: 890-5373-3

Date Collected: 09/28/23 16:50

Matrix: Solid

Date Received: 09/29/23 09:54

Sample Depth: 0-5'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		10/02/23 15:31	10/02/23 22:29	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		10/02/23 15:31	10/02/23 22:29	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/02/23 15:31	10/02/23 22:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				10/02/23 15:31	10/02/23 22:29	1
o-Terphenyl	103		70 - 130				10/02/23 15:31	10/02/23 22:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	424		4.98		mg/Kg			10/02/23 13:50	1

Client Sample ID: W-SW-04.2

Lab Sample ID: 890-5373-4

Date Collected: 09/28/23 17:00

Matrix: Solid

Date Received: 09/29/23 09:54

Sample Depth: 0-5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 13:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 13:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 13:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/29/23 16:40	10/02/23 13:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 13:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/29/23 16:40	10/02/23 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				09/29/23 16:40	10/02/23 13:30	1
1,4-Difluorobenzene (Surr)	107		70 - 130				09/29/23 16:40	10/02/23 13:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/02/23 13:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/02/23 22:50	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/02/23 15:31	10/02/23 22:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/02/23 15:31	10/02/23 22:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/02/23 15:31	10/02/23 22:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				10/02/23 15:31	10/02/23 22:50	1
o-Terphenyl	105		70 - 130				10/02/23 15:31	10/02/23 22:50	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: MOBLEY WATER

Job ID: 890-5373-1
 SDG: KH227027

Client Sample ID: W-SW-04.2

Lab Sample ID: 890-5373-4

Date Collected: 09/28/23 17:00
 Date Received: 09/29/23 09:54
 Sample Depth: 0-5'

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	146		5.02		mg/Kg			10/02/23 13:57	1

Client Sample ID: W-SW-05.2

Lab Sample ID: 890-5373-5

Date Collected: 09/28/23 17:15
 Date Received: 09/29/23 09:54
 Sample Depth: 0-5'

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 13:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 13:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 13:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/29/23 16:40	10/02/23 13:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 13:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/29/23 16:40	10/02/23 13:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				09/29/23 16:40	10/02/23 13:51	1
1,4-Difluorobenzene (Surr)	102		70 - 130				09/29/23 16:40	10/02/23 13:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/02/23 13:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			10/02/23 23:12	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		10/02/23 15:31	10/02/23 23:12	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		10/02/23 15:31	10/02/23 23:12	1
Oll Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/02/23 15:31	10/02/23 23:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				10/02/23 15:31	10/02/23 23:12	1
o-Terphenyl	109		70 - 130				10/02/23 15:31	10/02/23 23:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	567		5.01		mg/Kg			10/02/23 14:04	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: MOBLEY WATER

Job ID: 890-5373-1
 SDG: KH227027

Client Sample ID: W-SW-06.2

Lab Sample ID: 890-5373-6

Date Collected: 09/28/23 17:30

Matrix: Solid

Date Received: 09/29/23 09:54

Sample Depth: 0-5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 14:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 14:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 14:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/29/23 16:40	10/02/23 14:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 14:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/29/23 16:40	10/02/23 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	09/29/23 16:40	10/02/23 14:11	1
1,4-Difluorobenzene (Surr)	107		70 - 130	09/29/23 16:40	10/02/23 14:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/02/23 14:11	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/02/23 23:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/02/23 15:31	10/02/23 23:34	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		10/02/23 15:31	10/02/23 23:34	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/02/23 15:31	10/02/23 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	10/02/23 15:31	10/02/23 23:34	1
o-Terphenyl	106		70 - 130	10/02/23 15:31	10/02/23 23:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	172		5.00		mg/Kg			10/02/23 14:24	1

Client Sample ID: S-SW-01.2

Lab Sample ID: 890-5373-7

Date Collected: 09/28/23 17:46

Matrix: Solid

Date Received: 09/29/23 09:54

Sample Depth: 0-5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 14:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 14:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 14:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/29/23 16:40	10/02/23 14:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 14:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/29/23 16:40	10/02/23 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/29/23 16:40	10/02/23 14:31	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: MOBLEY WATER

Job ID: 890-5373-1
 SDG: KH227027

Client Sample ID: S-SW-01.2

Lab Sample ID: 890-5373-7

Date Collected: 09/28/23 17:46

Matrix: Solid

Date Received: 09/29/23 09:54

Sample Depth: 0-5'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	109		70 - 130	09/29/23 16:40	10/02/23 14:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/02/23 14:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			10/02/23 23:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		10/02/23 15:31	10/02/23 23:55	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		10/02/23 15:31	10/02/23 23:55	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/02/23 15:31	10/02/23 23:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	10/02/23 15:31	10/02/23 23:55	1
o-Terphenyl	100		70 - 130	10/02/23 15:31	10/02/23 23:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	181		5.04		mg/Kg			10/02/23 14:30	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: MOBLEY WATER

Job ID: 890-5373-1
SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-5373-1	N-SW-02.2	85	102
890-5373-1 MS	N-SW-02.2	107	108
890-5373-1 MSD	N-SW-02.2	105	102
890-5373-2	W-SW-02.1	98	102
890-5373-3	W-SW-03.2	105	102
890-5373-4	W-SW-04.2	97	107
890-5373-5	W-SW-05.2	95	102
890-5373-6	W-SW-06.2	98	107
890-5373-7	S-SW-01.2	99	109
LCS 880-63670/1-A	Lab Control Sample	98	100
LCSD 880-63670/2-A	Lab Control Sample Dup	95	101
MB 880-63670/5-A	Method Blank	116	141 S1+

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-5373-1	N-SW-02.2	113	97
890-5373-1 MS	N-SW-02.2	113	87
890-5373-1 MSD	N-SW-02.2	115	89
890-5373-2	W-SW-02.1	118	101
890-5373-3	W-SW-03.2	122	103
890-5373-4	W-SW-04.2	121	105
890-5373-5	W-SW-05.2	127	109
890-5373-6	W-SW-06.2	123	106
890-5373-7	S-SW-01.2	110	100
LCS 880-63769/2-A	Lab Control Sample	108	114
LCSD 880-63769/3-A	Lab Control Sample Dup	110	110
MB 880-63769/1-A	Method Blank	165 S1+	150 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: MOBLEY WATER

Job ID: 890-5373-1
 SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-63670/5-A
 Matrix: Solid
 Analysis Batch: 63715

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 63670

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 12:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 12:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 12:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/29/23 16:40	10/02/23 12:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 12:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/29/23 16:40	10/02/23 12:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	09/29/23 16:40	10/02/23 12:00	1
1,4-Difluorobenzene (Surr)	141	S1+	70 - 130	09/29/23 16:40	10/02/23 12:00	1

Lab Sample ID: LCS 880-63670/1-A
 Matrix: Solid
 Analysis Batch: 63715

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 63670

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1067		mg/Kg		107	70 - 130
Toluene	0.100	0.1006		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1003		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2199		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1011		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-63670/2-A
 Matrix: Solid
 Analysis Batch: 63715

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 63670

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1116		mg/Kg		112	70 - 130	5	35
Toluene	0.100	0.1030		mg/Kg		103	70 - 130	2	35
Ethylbenzene	0.100	0.09783		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2063		mg/Kg		103	70 - 130	6	35
o-Xylene	0.100	0.09615		mg/Kg		96	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-5373-1 MS
 Matrix: Solid
 Analysis Batch: 63715

Client Sample ID: N-SW-02.2
 Prep Type: Total/NA
 Prep Batch: 63670

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0990	0.1060		mg/Kg		107	70 - 130
Toluene	<0.00200	U	0.0990	0.09041		mg/Kg		91	70 - 130

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: MOBLEY WATER

Job ID: 890-5373-1
 SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-5373-1 MS
 Matrix: Solid
 Analysis Batch: 63715

Client Sample ID: N-SW-02.2
 Prep Type: Total/NA
 Prep Batch: 63670

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Result	Qualifier				
Ethylbenzene	<0.00200	U	0.0990	0.08474		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.198	0.1831		mg/Kg		92	70 - 130
o-Xylene	<0.00200	U	0.0990	0.09980		mg/Kg		100	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-5373-1 MSD
 Matrix: Solid
 Analysis Batch: 63715

Client Sample ID: N-SW-02.2
 Prep Type: Total/NA
 Prep Batch: 63670

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00200	U	0.0990	0.09539		mg/Kg		96	70 - 130	11	35
Toluene	<0.00200	U	0.0990	0.08679		mg/Kg		88	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.0990	0.08686		mg/Kg		88	70 - 130	2	35
m-Xylene & p-Xylene	<0.00399	U	0.198	0.1965		mg/Kg		99	70 - 130	7	35
o-Xylene	<0.00200	U	0.0990	0.09409		mg/Kg		95	70 - 130	6	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-63769/1-A
 Matrix: Solid
 Analysis Batch: 63710

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 63769

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/02/23 15:31	10/02/23 19:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/02/23 15:31	10/02/23 19:53	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/02/23 15:31	10/02/23 19:53	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	165	S1+	70 - 130	10/02/23 15:31	10/02/23 19:53	1
o-Terphenyl	150	S1+	70 - 130	10/02/23 15:31	10/02/23 19:53	1

Lab Sample ID: LCS 880-63769/2-A
 Matrix: Solid
 Analysis Batch: 63710

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 63769

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
Gasoline Range Organics (GRO)-C6-C10	1000	994.5		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	962.2		mg/Kg		96	70 - 130

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: MOBLEY WATER

Job ID: 890-5373-1
 SDG: KH227027

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-63769/2-A
Matrix: Solid
Analysis Batch: 63710

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63769

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	108		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: LCSD 880-63769/3-A
Matrix: Solid
Analysis Batch: 63710

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 63769

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	987.9		mg/Kg		99	70 - 130	1		20
Diesel Range Organics (Over C10-C28)	1000	949.4		mg/Kg		95	70 - 130	1		20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	110		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 890-5373-1 MS
Matrix: Solid
Analysis Batch: 63710

Client Sample ID: N-SW-02.2
Prep Type: Total/NA
Prep Batch: 63769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	994	845.6		mg/Kg		81	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.4	U	994	1090		mg/Kg		108	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	113		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 890-5373-1 MSD
Matrix: Solid
Analysis Batch: 63710

Client Sample ID: N-SW-02.2
Prep Type: Total/NA
Prep Batch: 63769

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	994	871.5		mg/Kg		84	70 - 130	3		20
Diesel Range Organics (Over C10-C28)	<50.4	U	994	1119		mg/Kg		111	70 - 130	3		20

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	115		70 - 130
o-Terphenyl	89		70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: MOBLEY WATER

Job ID: 890-5373-1
 SDG: KH227027

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-63721/1-A
 Matrix: Solid
 Analysis Batch: 63754

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/02/23 13:04	1

Lab Sample ID: LCS 880-63721/2-A
 Matrix: Solid
 Analysis Batch: 63754

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.7		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-63721/3-A
 Matrix: Solid
 Analysis Batch: 63754

Client Sample ID: Lab Control Sample Dup
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	247.0		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-5373-1 MS
 Matrix: Solid
 Analysis Batch: 63754

Client Sample ID: N-SW-02.2
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	199	F1	248	393.9	F1	mg/Kg		78	90 - 110

Lab Sample ID: 890-5373-1 MSD
 Matrix: Solid
 Analysis Batch: 63754

Client Sample ID: N-SW-02.2
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	199	F1	248	394.2	F1	mg/Kg		79	90 - 110	0	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: MOBLEY WATERJob ID: 890-5373-1
SDG: KH227027

GC VOA

Prep Batch: 63670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5373-1	N-SW-02.2	Total/NA	Solid	5035	
890-5373-2	W-SW-02.1	Total/NA	Solid	5035	
890-5373-3	W-SW-03.2	Total/NA	Solid	5035	
890-5373-4	W-SW-04.2	Total/NA	Solid	5035	
890-5373-5	W-SW-05.2	Total/NA	Solid	5035	
890-5373-6	W-SW-06.2	Total/NA	Solid	5035	
890-5373-7	S-SW-01.2	Total/NA	Solid	5035	
MB 880-63670/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-63670/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-63670/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5373-1 MS	N-SW-02.2	Total/NA	Solid	5035	
890-5373-1 MSD	N-SW-02.2	Total/NA	Solid	5035	

Analysis Batch: 63715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5373-1	N-SW-02.2	Total/NA	Solid	8021B	63670
890-5373-2	W-SW-02.1	Total/NA	Solid	8021B	63670
890-5373-3	W-SW-03.2	Total/NA	Solid	8021B	63670
890-5373-4	W-SW-04.2	Total/NA	Solid	8021B	63670
890-5373-5	W-SW-05.2	Total/NA	Solid	8021B	63670
890-5373-6	W-SW-06.2	Total/NA	Solid	8021B	63670
890-5373-7	S-SW-01.2	Total/NA	Solid	8021B	63670
MB 880-63670/5-A	Method Blank	Total/NA	Solid	8021B	63670
LCS 880-63670/1-A	Lab Control Sample	Total/NA	Solid	8021B	63670
LCSD 880-63670/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63670
890-5373-1 MS	N-SW-02.2	Total/NA	Solid	8021B	63670
890-5373-1 MSD	N-SW-02.2	Total/NA	Solid	8021B	63670

Analysis Batch: 63820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5373-1	N-SW-02.2	Total/NA	Solid	Total BTEX	
890-5373-2	W-SW-02.1	Total/NA	Solid	Total BTEX	
890-5373-3	W-SW-03.2	Total/NA	Solid	Total BTEX	
890-5373-4	W-SW-04.2	Total/NA	Solid	Total BTEX	
890-5373-5	W-SW-05.2	Total/NA	Solid	Total BTEX	
890-5373-6	W-SW-06.2	Total/NA	Solid	Total BTEX	
890-5373-7	S-SW-01.2	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 63710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5373-1	N-SW-02.2	Total/NA	Solid	8015B NM	63769
890-5373-2	W-SW-02.1	Total/NA	Solid	8015B NM	63769
890-5373-3	W-SW-03.2	Total/NA	Solid	8015B NM	63769
890-5373-4	W-SW-04.2	Total/NA	Solid	8015B NM	63769
890-5373-5	W-SW-05.2	Total/NA	Solid	8015B NM	63769
890-5373-6	W-SW-06.2	Total/NA	Solid	8015B NM	63769
890-5373-7	S-SW-01.2	Total/NA	Solid	8015B NM	63769
MB 880-63769/1-A	Method Blank	Total/NA	Solid	8015B NM	63769
LCS 880-63769/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	63769

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: MOBLEY WATER

Job ID: 890-5373-1
SDG: KH227027

GC Semi VOA (Continued)

Analysis Batch: 63710 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-63769/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	63769
890-5373-1 MS	N-SW-02.2	Total/NA	Solid	8015B NM	63769
890-5373-1 MSD	N-SW-02.2	Total/NA	Solid	8015B NM	63769

Prep Batch: 63769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5373-1	N-SW-02.2	Total/NA	Solid	8015NM Prep	
890-5373-2	W-SW-02.1	Total/NA	Solid	8015NM Prep	
890-5373-3	W-SW-03.2	Total/NA	Solid	8015NM Prep	
890-5373-4	W-SW-04.2	Total/NA	Solid	8015NM Prep	
890-5373-5	W-SW-05.2	Total/NA	Solid	8015NM Prep	
890-5373-6	W-SW-06.2	Total/NA	Solid	8015NM Prep	
890-5373-7	S-SW-01.2	Total/NA	Solid	8015NM Prep	
MB 880-63769/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-63769/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-63769/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5373-1 MS	N-SW-02.2	Total/NA	Solid	8015NM Prep	
890-5373-1 MSD	N-SW-02.2	Total/NA	Solid	8015NM Prep	

Analysis Batch: 63863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5373-1	N-SW-02.2	Total/NA	Solid	8015 NM	
890-5373-2	W-SW-02.1	Total/NA	Solid	8015 NM	
890-5373-3	W-SW-03.2	Total/NA	Solid	8015 NM	
890-5373-4	W-SW-04.2	Total/NA	Solid	8015 NM	
890-5373-5	W-SW-05.2	Total/NA	Solid	8015 NM	
890-5373-6	W-SW-06.2	Total/NA	Solid	8015 NM	
890-5373-7	S-SW-01.2	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 63721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5373-1	N-SW-02.2	Soluble	Solid	DI Leach	
890-5373-2	W-SW-02.1	Soluble	Solid	DI Leach	
890-5373-3	W-SW-03.2	Soluble	Solid	DI Leach	
890-5373-4	W-SW-04.2	Soluble	Solid	DI Leach	
890-5373-5	W-SW-05.2	Soluble	Solid	DI Leach	
890-5373-6	W-SW-06.2	Soluble	Solid	DI Leach	
890-5373-7	S-SW-01.2	Soluble	Solid	DI Leach	
MB 880-63721/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-63721/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-63721/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5373-1 MS	N-SW-02.2	Soluble	Solid	DI Leach	
890-5373-1 MSD	N-SW-02.2	Soluble	Solid	DI Leach	

Analysis Batch: 63754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5373-1	N-SW-02.2	Soluble	Solid	300.0	63721
890-5373-2	W-SW-02.1	Soluble	Solid	300.0	63721
890-5373-3	W-SW-03.2	Soluble	Solid	300.0	63721

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: MOBLEY WATER

Job ID: 890-5373-1
SDG: KH227027

HPLC/IC (Continued)

Analysis Batch: 63754 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5373-4	W-SW-04.2	Soluble	Solid	300.0	63721
890-5373-5	W-SW-05.2	Soluble	Solid	300.0	63721
890-5373-6	W-SW-06.2	Soluble	Solid	300.0	63721
890-5373-7	S-SW-01.2	Soluble	Solid	300.0	63721
MB 880-63721/1-A	Method Blank	Soluble	Solid	300.0	63721
LCS 880-63721/2-A	Lab Control Sample	Soluble	Solid	300.0	63721
LCSD 880-63721/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63721
890-5373-1 MS	N-SW-02.2	Soluble	Solid	300.0	63721
890-5373-1 MSD	N-SW-02.2	Soluble	Solid	300.0	63721

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: MOBLEY WATER

Job ID: 890-5373-1
 SDG: KH227027

Client Sample ID: N-SW-02.2

Lab Sample ID: 890-5373-1

Date Collected: 09/28/23 16:00

Matrix: Solid

Date Received: 09/29/23 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	63670	09/29/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63715	10/02/23 12:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			63820	10/02/23 12:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			63863	10/02/23 21:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	63769	10/02/23 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63710	10/02/23 21:01	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	63721	10/02/23 11:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63754	10/02/23 13:24	CH	EET MID

Client Sample ID: W-SW-02.1

Lab Sample ID: 890-5373-2

Date Collected: 09/28/23 16:38

Matrix: Solid

Date Received: 09/29/23 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	63670	09/29/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63715	10/02/23 12:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			63820	10/02/23 12:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			63863	10/02/23 22:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	63769	10/02/23 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63710	10/02/23 22:07	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	63721	10/02/23 11:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63754	10/02/23 13:44	CH	EET MID

Client Sample ID: W-SW-03.2

Lab Sample ID: 890-5373-3

Date Collected: 09/28/23 16:50

Matrix: Solid

Date Received: 09/29/23 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	63670	09/29/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63715	10/02/23 13:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			63820	10/02/23 13:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			63863	10/02/23 22:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	63769	10/02/23 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63710	10/02/23 22:29	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	63721	10/02/23 11:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63754	10/02/23 13:50	CH	EET MID

Client Sample ID: W-SW-04.2

Lab Sample ID: 890-5373-4

Date Collected: 09/28/23 17:00

Matrix: Solid

Date Received: 09/29/23 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	63670	09/29/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63715	10/02/23 13:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			63820	10/02/23 13:30	SM	EET MID

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: MOBLEY WATER

Job ID: 890-5373-1
 SDG: KH227027

Client Sample ID: W-SW-04.2

Lab Sample ID: 890-5373-4

Date Collected: 09/28/23 17:00

Matrix: Solid

Date Received: 09/29/23 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			63863	10/02/23 22:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	63769	10/02/23 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63710	10/02/23 22:50	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	63721	10/02/23 11:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63754	10/02/23 13:57	CH	EET MID

Client Sample ID: W-SW-05.2

Lab Sample ID: 890-5373-5

Date Collected: 09/28/23 17:15

Matrix: Solid

Date Received: 09/29/23 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63670	09/29/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63715	10/02/23 13:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			63820	10/02/23 13:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			63863	10/02/23 23:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	63769	10/02/23 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63710	10/02/23 23:12	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	63721	10/02/23 11:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63754	10/02/23 14:04	CH	EET MID

Client Sample ID: W-SW-06.2

Lab Sample ID: 890-5373-6

Date Collected: 09/28/23 17:30

Matrix: Solid

Date Received: 09/29/23 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63670	09/29/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63715	10/02/23 14:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			63820	10/02/23 14:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			63863	10/02/23 23:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	63769	10/02/23 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63710	10/02/23 23:34	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	63721	10/02/23 11:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63754	10/02/23 14:24	CH	EET MID

Client Sample ID: S-SW-01.2

Lab Sample ID: 890-5373-7

Date Collected: 09/28/23 17:46

Matrix: Solid

Date Received: 09/29/23 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	63670	09/29/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63715	10/02/23 14:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			63820	10/02/23 14:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			63863	10/02/23 23:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	63769	10/02/23 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63710	10/02/23 23:55	SM	EET MID

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: MOBLEY WATER

Job ID: 890-5373-1
SDG: KH227027

Client Sample ID: S-SW-01.2

Lab Sample ID: 890-5373-7

Date Collected: 09/28/23 17:46

Matrix: Solid

Date Received: 09/29/23 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	63721	10/02/23 11:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63754	10/02/23 14:30	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: MOBLEY WATER

Job ID: 890-5373-1
SDG: KH227027

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: MOBLEY WATER

Job ID: 890-5373-1
SDG: KH227027

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: MOBLEY WATER

Job ID: 890-5373-1
SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5373-1	N-SW-02.2	Solid	09/28/23 16:00	09/29/23 09:54	0-5'
890-5373-2	W-SW-02.1	Solid	09/28/23 16:38	09/29/23 09:54	0-5'
890-5373-3	W-SW-03.2	Solid	09/28/23 16:50	09/29/23 09:54	0-5'
890-5373-4	W-SW-04.2	Solid	09/28/23 17:00	09/29/23 09:54	0-5'
890-5373-5	W-SW-05.2	Solid	09/28/23 17:15	09/29/23 09:54	0-5'
890-5373-6	W-SW-06.2	Solid	09/28/23 17:30	09/29/23 09:54	0-5'
890-5373-7	S-SW-01.2	Solid	09/28/23 17:46	09/29/23 09:54	0-5'

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Chain of Custody

Environcon Testing
Xenco

Environcon Testing
11443 Zith S410 Sam Houston, TX 75701-509-3314
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

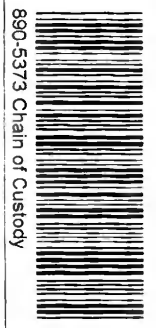
Work Order No: _____

www.xenco.com Page _____ of _____

Project Manager: **Joseph Guesmer** Bill to: (if different) **Sobers, NM S.**
 Company Name: **Terracon** Company Name:
 Address: **4526 W. Pierce St.** Address:
 City, State Zip: **Carlsbad NM, 88820** City, State Zip:
 Phone: **806 544 9276** Email:

Work Order Comments
 Program: UST/PST PRP Brownfields RRC Superfund
 State of Project:
 Reporting: Level II Level III PST/UST TRRP Level IV
 Deliverables: EDD ADAPT Other:

Project Name: **Mobley Water** Turn Around
 Project Number: **KH22302Z** Inroute Rush **24hr** Pres. Code
 Project Location: **Travis Casey** Due Date:
 Sampler's Name: TAT starts the day received by the lab, if received by 4:30pm
 P.O. #:
 SAMPLE RECEIPT Temp Blank: Yes No Wet Ice: Yes No
 Samples Received Inact: Yes No Thermometer ID: **TW1007**
 Cooler Custody Seals: Yes No N/A Correction Factor: **-0.2**
 Sample Custody Seals: Yes No N/A Temperature Reading: **-1.4**
 Total Containers: Corrected Temperature: **-1.2**



890-5373 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Sample Comments
N-SW-02.2	S	9-28	1600	0-5' Comp	1	1	Chloride (EPA Method 300)	
W-SW-02.1			1638			1	TPH Extended 8015	
W-SW-03.2			1650			1	BTEX (EPA Method 8021B)	
W-SW-04.2			1700			1		
W-SW-05.2			1715			1		
W-SW-06.2			1730			1		
S-SW-01.2			1746			1		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature) **[Signature]** Received by: (Signature) **[Signature]** Date/Time **9/29/24**
 Relinquished by: (Signature) **[Signature]** Received by: (Signature) **[Signature]** Date/Time **9/29 9:54am**

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5373-1

SDG Number: KH227027

Login Number: 5373

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5373-1

SDG Number: KH227027

Login Number: 5373

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 10/02/23 08:46 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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APPENDIX E – INITIAL C-141 AND FINAL C-141

APPENDIX F – TERRACON STANDARD OF CARE, LIMITATIONS, AND RELIANCE

Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These services were performed in accordance with the scope of work agreed with you, Solaris Midstream LLC, as reflected in our Master Services Agreement.

Additional Scope Limitations

The development of this Amended RAP is based upon information provided by the Client and Terracon's remediation and construction services line. Such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those by information provided by the Client. The data, interpretations, findings, and recommendations are based solely upon reformation executed within the scope of these services.

Reliance

This report has been prepared for the exclusive use of Solaris Midstream LLC, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Solaris Midstream LLC and Terracon. Any unauthorized distribution or reuse is at Solaris Midstream LLC sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal and Solaris Midstream LLC and Terracon's Master Services Agreement. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to Solaris Midstream LLC and all relying parties unless otherwise agreed in writing.



May 15, 2025

Attn: New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico, NM 87505

RE: **Amended Closure Report**
Solaris Water Midstream, LLC
Mobley Water Recycling Facility
Unit C, Section 19, Township 23 South, Range 30 East
32.2958135°, -103.9252036°
Eddy County, New Mexico
Terracon Project No. KH227027
NMOCD Incident No. nAPP2234144689

To Whom It May Concern:

Terracon Consultants, Inc. (Terracon) is submitting an Amended Closure Report for the above-referenced site on behalf of Solaris Water Midstream, LLC (Solaris). This amended report was prepared in compliance with the New Mexico Oil Conservation Division (NMOCD) regulations and addresses the remedial actions following the release of produced water from an overfilled treatment tank on December 6, 2022, at the Mobley Water Recycling Facility. This Amended Closure Report was prepared in response to submittal of the Release Investigation, and Closure Report dated October 5, 2023, subsequently denied by the NMOCD on March 7, 2024, stating "*FS-14 is over the strictest criteria from Table 1 of the OCD spill rule*". Detailed assessment and remedial actions by Terracon are outlined in the following sections.

Action Items

Completed Actions

- 1) The confirmation sampling activities in the area of sample FS-14 were executed on April 24, 2025.
- 2) Utilizing a hand auger, one five-point composite confirmation sample FS-14.1 (5.0-5.5 ft.) representative of a 200-square-foot (sf) area was collected at the former sample FS-14 location and submitted to Eurofins Environmental Testing for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), Chloride and total petroleum hydrocarbons (TPH-GRO+DRO+MRO). The sample results for FS-14.1 (5.0-5.5 ft.) for BTEX, Chloride and TPH were below the NMOCD established strictest closure criteria.
- 3) An updated Delineation Sample Location Map and associated data tables for approval have been provided.
- 4) Remedial activities were terminated when confirmation sample SF-14.1 was collected and laboratory results indicated concentrations below the NMOCD RALs

Explore with us

for Oil and Gas impacted soils.

Anticipated Actions

1) Approval by the NMOCD.

Reclamation/Remediation Levels

Parameters	Closure Criteria	Analytical Method
Total Benzene, Toluene, Ethylbenzene and Xylenes (Total BTEX)	50 mg/kg	EPA Method 8021B
Benzene	10 mg/kg	EPA Method 8021B
Chlorides	600 mg/kg	EPA Method 300
Total Petroleum Hydrocarbons (TPH) GRO, DRO and MRO	100 mg/kg	EPA Method 8015M

Conclusion and Closure Request

Based on the laboratory results of the confirmation sampling (sample FS-14.1) at the previous FS-14 sample location, the response action for the release at the Mobley Water Recycling facility on February 17, 2023, has met the closure criteria defined in accordance with NMAC 19.15.29.12. Terracon respectfully requests regulatory closure of incident nAPP2234144689 on behalf of Solaris Water Midstream.

Sincerely,



Prepared by:

Charles F Smith

Senior Project Manager

Lubbock, TX

Reviewed by:

Mike Adams

Principal

Lubbock, TX

Attachments:

C-141 Summary Sheet

Appendix A – Exhibits

Exhibit 1 – Confirmation Sample Location Map

Appendix B – Tables and Analytical Report

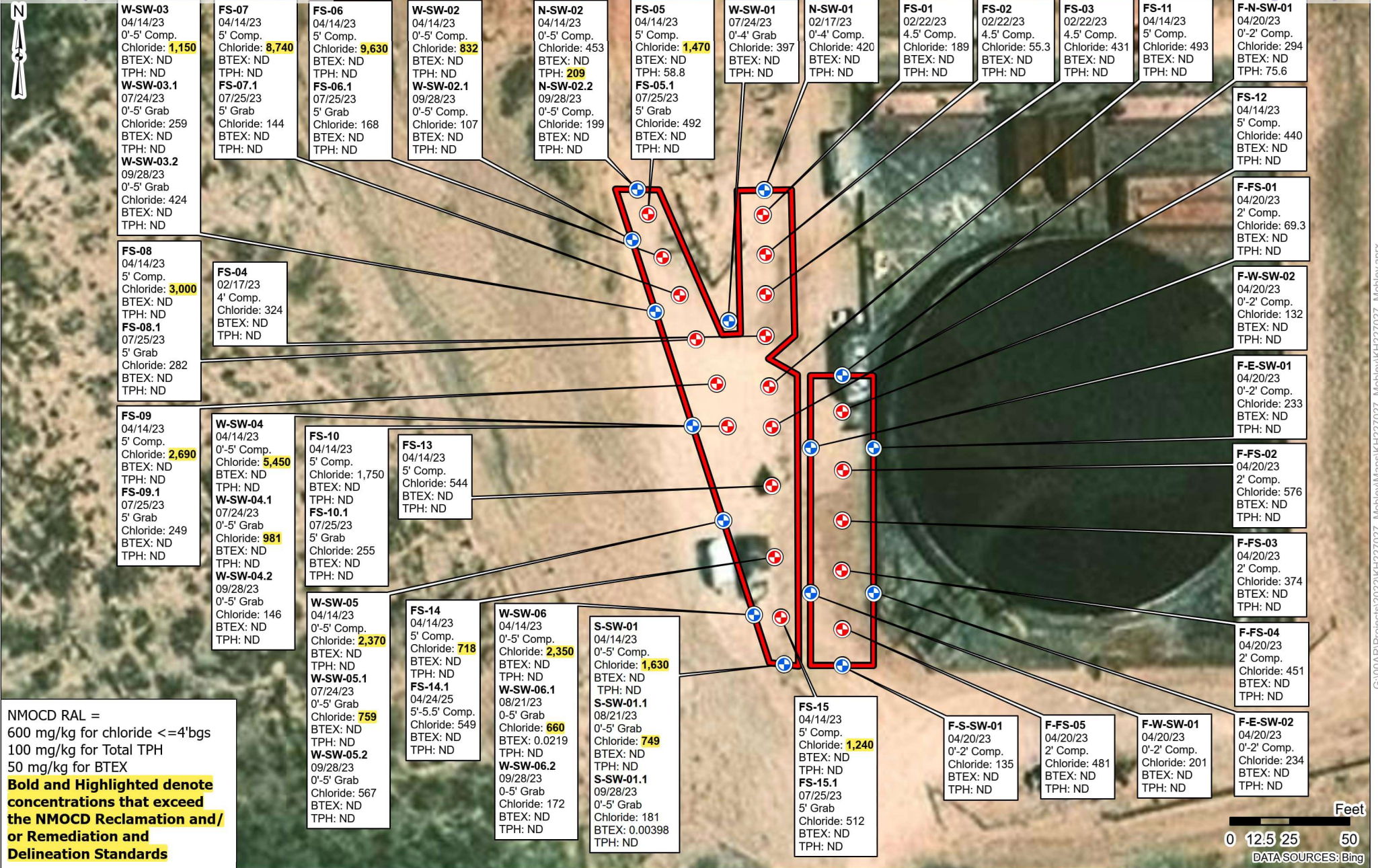
Table 1 – Confirmation Floor Sample Results

Table 2 – Confirmation Wall Sample Results

Appendix C – Analytical Report and Chain of Custody

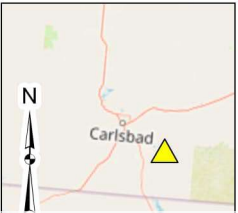
Appendix D – Terracon Standard of Care, Limitation, and Reliance

APPENDIX A – EXHIBITS



NMOCD RAL =
 600 mg/kg for chloride <=4' bgs
 100 mg/kg for Total TPH
 50 mg/kg for BTEX

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards



- Excavation Boundary
- Floor
- Wall
- Sample Location

Project No.: KH227027
 Date: May 13 2025
 Drawn By: JWL
 Reviewed By: JRG

5847 50th St
 Lubbock, TX
 PH. 806-300-0140 terracon.com

Confirmation Sample Location Map

Mobley Water Facility
 Eddy County, New Mexico
 32.2958135, -103.9252036

Exhibit

1

APPENDIX B – TABLES

Table 1
Soil Analytical Results Summary - Confirmation Evaluation (Floor Samples)
Mobley Water Recycle Facility
NMOCD Reference No. nAPP2234144689

Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Confirmation Floor Samples											
FS-01	2/22/2023	4.5	Composite	In-situ	189	NA	NA	NA	NA	NA	NA
FS-02	2/22/2023	4.5	Composite	In-situ	55.3	NA	NA	NA	NA	NA	NA
FS-03	2/22/2023	4.5	Composite	In-situ	431	NA	NA	NA	NA	NA	NA
FS-04	2/17/2023	4.0	Composite	In-situ	324	ND	ND	ND	ND	ND	ND
	2/22/2023	4.5	Composite	In-situ	178	NA	NA	NA	NA	NA	NA
FS-05	4/14/2023	5.0	Composite	Excavated	1,470	ND	ND	58.8	58.8	ND	ND
FS-05.1	7/25/2023	5.0	Composite	In-situ	199	ND	ND	ND	ND	ND	ND
FS-06	4/14/2023	5.0	Composite	Excavated	9,630	ND	ND	ND	ND	ND	ND
FS-06.1	7/25/2023	5.0	Composite	In-situ	168	ND	ND	ND	ND	ND	ND
FS-07	4/14/2023	5.0	Composite	Excavated	8,740	ND	ND	ND	ND	ND	ND
FS-07.1	7/25/2023	5.0	Composite	In-situ	144	ND	ND	ND	ND	ND	ND
FS-08	4/14/2023	5.0	Composite	Excavated	3,000	ND	ND	ND	ND	ND	ND
FS-08.1	7/25/2023	5.0	Composite	In-situ	282	ND	ND	ND	ND	ND	ND
FS-09	4/14/2023	5.0	Composite	Excavated	2,690	ND	ND	ND	ND	ND	ND
FS-09.1	7/25/2023	5.0	Composite	In-situ	249	ND	ND	ND	ND	ND	ND
FS-10	4/14/2023	5.0	Composite	Excavated	1,750	ND	ND	ND	ND	ND	ND
FS-10.1	7/25/2023	5.0	Composite	In-situ	225	ND	ND	ND	ND	ND	ND
FS-11	4/14/2023	5.0	Composite	In-situ	493	ND	ND	ND	ND	ND	ND
FS-12	4/14/2023	5.0	Composite	In-situ	440	ND	ND	ND	ND	ND	ND
FS-13	4/14/2023	5.0	Composite	In-situ	544	ND	ND	ND	ND	ND	ND
FS-14	4/14/2023	5.0	Composite	In-situ	718	ND	ND	ND	ND	ND	ND
FS14.1	4/24/2025	5.0-5.5	Composite	In-situ	549	ND	ND	ND	ND	ND	ND
FS-15	4/14/2023	5.0	Composite	Excavated	1,240	ND	ND	ND	ND	ND	ND
FS-15.1	7/25/2023	5.0	Composite	In-situ	512	ND	ND	ND	ND	ND	ND
F-FS01	4/20/2023	0-2.0	Composite	In-situ	69.3	ND	ND	ND	ND	ND	ND
F-FS02	4/20/2023	0-2.0	Composite	In-situ	576	ND	ND	ND	ND	ND	ND
F-FS03	4/20/2023	0-2.0	Composite	In-situ	374	ND	ND	ND	ND	ND	ND
F-FS04	4/20/2023	0-2.0	Composite	In-situ	451	ND	ND	ND	ND	ND	ND
F-FS05	4/20/2023	0-2.0	Composite	In-situ	481	ND	ND	ND	ND	ND	ND
NMOCD Reclamation Standards³					600	10	50	100	N/A		
NMOCD Remediation Standards⁴					600	10	50	100	N/A		

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs

4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

ND = Constituent was not detected above the laboratory sample detection limit (SDL).

NA = Not Analyzed

N/A = Not Applicable

Bold denotes concentrations above applicable laboratory SDLs.

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

Table 2
Soil Analytical Results Summary - Confirmation Evaluation (Wall Samples)
Mobley Water Recycle Facility
NMOCD Reference No. nAPP2234144689

Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	
Confirmation Wall Samples											
N-SW-01	2/17/2023	0-4	Composite	In-situ	420	ND	ND	ND	ND	ND	ND
E-SW-01	2/17/2023	0-4	Composite	In-situ	87	ND	ND	ND	ND	ND	ND
W-SW-01	2/22/2023	0-4	Composite	In-situ	397	NA	NA	NA	NA	NA	NA
N-SW-02	4/14/2023	0-5	Composite	In-situ	453	ND	ND	209	124	ND	84.5
N-SW-02.2	9/28/2023	0-5	Composite	In-situ	199	ND	ND	ND	ND	ND	ND
E-SW-2	4/14/2023	0-5	Composite	Excavated	30,500	ND	ND	ND	ND	ND	ND
W-SW-02.1	9/28/2023	0-5	Composite	In-situ	107	ND	ND	ND	ND	ND	ND
E-SW-04	4/14/2023	0-5	Composite	In-situ	74.9	ND	ND	ND	ND	ND	ND
W-SW-02	4/14/2023	0-5	Composite	In-situ	832	ND	ND	ND	ND	ND	ND
W-SW-03	4/14/2023	0-5	Composite	Excavated	1150	ND	ND	ND	ND	ND	ND
W-SW-03.1	7/24/2023	0-5	Composite	In-situ	259	ND	ND	ND	ND	ND	ND
W-SW-03.2	9/28/2023	0-5	Composite	In-situ	424	ND	ND	ND	ND	ND	ND
W-SW-04	4/14/2023	0-5	Composite	Excavated	5450	ND	ND	ND	ND	ND	ND
W-SW-04.1	7/24/2023	0-5	Composite	In-situ	981	ND	ND	ND	ND	ND	ND
W-SW-04.2	9/28/2023	0-5	Composite	In-situ	146	ND	ND	ND	ND	ND	ND
W-SW-05	4/14/2023	0-5	Composite	Excavated	2370	ND	ND	ND	ND	ND	ND
W-SW-05.1	7/24/2023	0-5	Composite	In-situ	759	ND	ND	ND	ND	ND	ND
W-SW-05.2	9/28/2023	0-5	Composite	In-situ	567	ND	ND	ND	ND	ND	ND
W-SW-06	4/14/2023	0-5	Composite	Excavated	2350	ND	ND	ND	ND	ND	ND
W-SW-06.1	8/21/2023	0-5	Composite	In-situ	660	ND	0.0219	ND	ND	ND	ND
W-SW-06.2	9/28/2023	0-5	Composite	In-situ	172	ND	ND	ND	ND	ND	ND
S-SW-01	4/14/2023	0-5	Composite	Excavated	1630	ND	ND	ND	ND	ND	ND
S-SW-01.1	8/21/2023	0-5	Composite	In-situ	749	ND	ND	ND	ND	ND	ND
S-SW-01.2	9/28/2023	0-5	Composite	In-situ	181	ND	ND	ND	ND	ND	ND
F-E-SW1	4/20/2023	0-2	Composite	In-situ	233	ND	ND	ND	ND	ND	ND
F-E-SW2	4/20/2023	0-2	Composite	In-situ	234	ND	ND	ND	ND	ND	ND
F-N-SW1	4/20/2023	0-2	Composite	In-situ	294	ND	ND	75.6	75.6	ND	ND
F-S-SW1	4/20/2023	0-2	Composite	In-situ	135	ND	ND	ND	ND	ND	ND
F-W-SW1	4/20/2023	0-2	Composite	In-situ	201	ND	ND	ND	ND	ND	ND
F-W-SW2	4/20/2023	0-2	Composite	In-situ	132	ND	ND	ND	ND	ND	ND
NMOCD Reclamation Standards³					600	10	50	100	N/A		
NMOCD Remediation Standards⁴					600	10	50	100	N/A		

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs

4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

ND = Constituent was not detected above the laboratory sample detection limit (SDL).

NA = Not Analyzed

N/A = Not applicable

Bold denotes concentrations above applicable laboratory SDLs.

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

APPENDIX C – ANALYTICAL REPORT AND CHAIN OF CUSTODY



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Chuck Smith
 Terracon Consulting Eng & Scientists
 5847 50th St
 Lubbock, Texas 79424

Generated 5/13/2025 10:19:18 AM Revision 1

JOB DESCRIPTION

Mobley Water Facility
 KH227027

JOB NUMBER

820-18644-1

Eurofins Lubbock
 6701 Aberdeen Ave.
 Suite 8
 Lubbock TX 79424



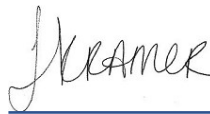
Eurofins Lubbock

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Revision 1

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Eurofins Lubbock

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If your report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification # 02015.

VL = field staff performs tests under NJ State certification # 06005.

WG = field staff performs tests under NJ State certification # PA001, PA State certification # 48-01334.

H = field staff performs tests under NJ NELAP certification # PA093, PA NELAP certification # 46-05499.

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Laboratory Job ID: 820-18644-1
SDG: KH227027

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 820-18644-1
 SDG: KH227027

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project: Mobley Water Facility

Job ID: 820-18644-1

Job ID: 820-18644-1

Eurofins Lubbock

Job Narrative 820-18644-1

REVISION

The report being provided is a revision of the original report sent on 5/2/2025. The report (revision 1) is being revised due to Per client email, requesting sample depth correction.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 4/25/2025 4:01 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 9.7°C.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-108994 and analytical batch 880-109154 was outside the upper control limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: FS-14.1 (820-18644-1), (LCS 880-108994/2-A), (LCSD 880-108994/3-A), (880-57466-A-27-B), (880-57466-A-27-C MS) and (880-57466-A-27-D MSD). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-109154/19) and (CCV 880-109154/4). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-108994 and analytical batch 880-109154 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-109074 and analytical batch 880-109083 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 820-18644-1
 SDG: KH227027

Client Sample ID: FS-14.1

Lab Sample ID: 820-18644-1

Date Collected: 04/24/25 13:00

Matrix: Solid

Date Received: 04/25/25 16:01

Sample Depth: 5.0-5.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 20:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 20:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 20:14	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		04/30/25 08:00	04/30/25 20:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 20:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/30/25 08:00	04/30/25 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	04/30/25 08:00	04/30/25 20:14	1
1,4-Difluorobenzene (Surr)	91		70 - 130	04/30/25 08:00	04/30/25 20:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/30/25 20:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/01/25 15:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/29/25 15:11	05/01/25 15:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/29/25 15:11	05/01/25 15:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/29/25 15:11	05/01/25 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	67	S1-	70 - 130	04/29/25 15:11	05/01/25 15:44	1
o-Terphenyl (Surr)	65	S1-	70 - 130	04/29/25 15:11	05/01/25 15:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	549	F1	9.96		mg/Kg			04/30/25 17:00	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 820-18644-1
 SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
820-18644-1	FS-14.1	89	91
880-56959-A-17-A MB	Method Blank	84	91
890-8045-A-11-C MS	Matrix Spike	102	101
890-8045-A-11-D MSD	Matrix Spike Duplicate	112	104
LCS 880-108996/1-A	Lab Control Sample	104	86
LCSD 880-108996/2-A	Lab Control Sample Dup	111	93
MB 880-108996/5-A	Method Blank	83	89

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
820-18644-1	FS-14.1	67 S1-	65 S1-
880-57466-A-27-C MS	Matrix Spike	35 S1-	29 S1-
880-57466-A-27-D MSD	Matrix Spike Duplicate	43 S1-	37 S1-
LCS 880-108994/2-A	Lab Control Sample	21 S1-	14 S1-
LCSD 880-108994/3-A	Lab Control Sample Dup	18 S1-	13 S1-
MB 880-108994/1-A	Method Blank	142 S1+	137 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 820-18644-1
 SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 880-56959-A-17-A MB
 Matrix: Solid
 Analysis Batch: 109033

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 108996

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 17:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 17:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 17:10	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		04/30/25 08:00	04/30/25 17:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 17:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/30/25 08:00	04/30/25 17:10	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	84		70 - 130	04/30/25 08:00	04/30/25 17:10	1
1,4-Difluorobenzene (Surr)	91		70 - 130	04/30/25 08:00	04/30/25 17:10	1

Lab Sample ID: MB 880-108996/5-A
 Matrix: Solid
 Analysis Batch: 109033

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 108996

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 11:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 11:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 11:42	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		04/30/25 08:00	04/30/25 11:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 11:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/30/25 08:00	04/30/25 11:42	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	83		70 - 130	04/30/25 08:00	04/30/25 11:42	1
1,4-Difluorobenzene (Surr)	89		70 - 130	04/30/25 08:00	04/30/25 11:42	1

Lab Sample ID: LCS 880-108996/1-A
 Matrix: Solid
 Analysis Batch: 109033

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 108996

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.09349		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.1129		mg/Kg		113	70 - 130
m,p-Xylenes	0.200	0.2177		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1093		mg/Kg		109	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-108996/2-A
 Matrix: Solid
 Analysis Batch: 109033

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 108996

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.1082		mg/Kg		108	70 - 130	9	35

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 820-18644-1
 SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-108996/2-A
 Matrix: Solid
 Analysis Batch: 109033

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 108996

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Toluene	0.100	0.09549		mg/Kg		95	70 - 130	2	35	
Ethylbenzene	0.100	0.1091		mg/Kg		109	70 - 130	3	35	
m,p-Xylenes	0.200	0.2484		mg/Kg		124	70 - 130	13	35	
o-Xylene	0.100	0.1258		mg/Kg		126	70 - 130	14	35	
LCSD LCSD										
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	111		70 - 130							
1,4-Difluorobenzene (Surr)	93		70 - 130							

Lab Sample ID: 890-8045-A-11-C MS
 Matrix: Solid
 Analysis Batch: 109033

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 108996

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09466		mg/Kg		95	70 - 130		
Toluene	<0.00200	U	0.100	0.08440		mg/Kg		84	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.09811		mg/Kg		98	70 - 130		
m,p-Xylenes	<0.00399	U	0.200	0.1814		mg/Kg		91	70 - 130		
o-Xylene	<0.00200	U	0.100	0.08998		mg/Kg		90	70 - 130		
MS MS											
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	102		70 - 130								
1,4-Difluorobenzene (Surr)	101		70 - 130								

Lab Sample ID: 890-8045-A-11-D MSD
 Matrix: Solid
 Analysis Batch: 109033

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 108996

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1057		mg/Kg		106	70 - 130	11	35
Toluene	<0.00200	U	0.100	0.08392		mg/Kg		84	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.1061		mg/Kg		106	70 - 130	8	35
m,p-Xylenes	<0.00399	U	0.200	0.2014		mg/Kg		101	70 - 130	10	35
o-Xylene	<0.00200	U	0.100	0.1005		mg/Kg		100	70 - 130	11	35
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	112		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-108994/1-A
 Matrix: Solid
 Analysis Batch: 109154

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 108994

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/25 15:11	05/01/25 08:38	1

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 820-18644-1
 SDG: KH227027

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-108994/1-A
Matrix: Solid
Analysis Batch: 109154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108994

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/25 15:11	05/01/25 08:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/25 15:11	05/01/25 08:38	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane (Surr)	142	S1+	70 - 130	04/29/25 15:11	05/01/25 08:38	1
o-Terphenyl (Surr)	137	S1+	70 - 130	04/29/25 15:11	05/01/25 08:38	1

Lab Sample ID: LCS 880-108994/2-A
Matrix: Solid
Analysis Batch: 109154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	1166		mg/Kg		117	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane (Surr)	21	S1-	70 - 130
o-Terphenyl (Surr)	14	S1-	70 - 130

Lab Sample ID: LCSD 880-108994/3-A
Matrix: Solid
Analysis Batch: 109154

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108994

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	1000	1076		mg/Kg		108	70 - 130	8	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane (Surr)	18	S1-	70 - 130
o-Terphenyl (Surr)	13	S1-	70 - 130

Lab Sample ID: 880-57466-A-27-C MS
Matrix: Solid
Analysis Batch: 109154

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 108994

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	998	258.8	F1	mg/Kg		26	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane (Surr)	35	S1-	70 - 130
o-Terphenyl (Surr)	29	S1-	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 820-18644-1
 SDG: KH227027

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-57466-A-27-D MSD
 Matrix: Solid
 Analysis Batch: 109154

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 108994

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	998	610.2	F1	mg/Kg		61	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	998	321.2	F1 F2	mg/Kg		32	70 - 130	22	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	43	S1-	70 - 130								
o-Terphenyl (Surr)	37	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109074/1-A
 Matrix: Solid
 Analysis Batch: 109083

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0		mg/Kg			04/30/25 16:42	1

Lab Sample ID: LCS 880-109074/2-A
 Matrix: Solid
 Analysis Batch: 109083

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Chloride	250	260.0		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-109074/3-A
 Matrix: Solid
 Analysis Batch: 109083

Client Sample ID: Lab Control Sample Dup
 Prep Type: Soluble

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Chloride	250	239.7		mg/Kg		96	90 - 110	8	20

Lab Sample ID: 820-18644-1 MS
 Matrix: Solid
 Analysis Batch: 109083

Client Sample ID: FS-14.1
 Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Chloride	549	F1	249	878.4	F1	mg/Kg		132	90 - 110		

Lab Sample ID: 820-18644-1 MSD
 Matrix: Solid
 Analysis Batch: 109083

Client Sample ID: FS-14.1
 Prep Type: Soluble

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Chloride	549	F1	249	890.3	F1	mg/Kg		137	90 - 110	1	20

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water FacilityJob ID: 820-18644-1
SDG: KH227027

GC VOA

Prep Batch: 108996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-18644-1	FS-14.1	Total/NA	Solid	5035	
880-56959-A-17-A MB	Method Blank	Total/NA	Solid	5035	
MB 880-108996/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108996/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108996/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8045-A-11-C MS	Matrix Spike	Total/NA	Solid	5035	
890-8045-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 109033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-18644-1	FS-14.1	Total/NA	Solid	8021B	108996
880-56959-A-17-A MB	Method Blank	Total/NA	Solid	8021B	108996
MB 880-108996/5-A	Method Blank	Total/NA	Solid	8021B	108996
LCS 880-108996/1-A	Lab Control Sample	Total/NA	Solid	8021B	108996
LCSD 880-108996/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108996
890-8045-A-11-C MS	Matrix Spike	Total/NA	Solid	8021B	108996
890-8045-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	108996

Analysis Batch: 109236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-18644-1	FS-14.1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 108994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-18644-1	FS-14.1	Total/NA	Solid	8015NM Prep	
MB 880-108994/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108994/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108994/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57466-A-27-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-57466-A-27-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 109154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-18644-1	FS-14.1	Total/NA	Solid	8015B NM	108994
MB 880-108994/1-A	Method Blank	Total/NA	Solid	8015B NM	108994
LCS 880-108994/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108994
LCSD 880-108994/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108994
880-57466-A-27-C MS	Matrix Spike	Total/NA	Solid	8015B NM	108994
880-57466-A-27-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	108994

Analysis Batch: 109351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-18644-1	FS-14.1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 109074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-18644-1	FS-14.1	Soluble	Solid	DI Leach	
MB 880-109074/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 820-18644-1
SDG: KH227027

HPLC/IC (Continued)

Leach Batch: 109074 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-109074/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109074/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-18644-1 MS	FS-14.1	Soluble	Solid	DI Leach	
820-18644-1 MSD	FS-14.1	Soluble	Solid	DI Leach	

Analysis Batch: 109083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-18644-1	FS-14.1	Soluble	Solid	300.0	109074
MB 880-109074/1-A	Method Blank	Soluble	Solid	300.0	109074
LCS 880-109074/2-A	Lab Control Sample	Soluble	Solid	300.0	109074
LCSD 880-109074/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109074
820-18644-1 MS	FS-14.1	Soluble	Solid	300.0	109074
820-18644-1 MSD	FS-14.1	Soluble	Solid	300.0	109074

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: Mobley Water Facility

Job ID: 820-18644-1
 SDG: KH227027

Client Sample ID: FS-14.1
Date Collected: 04/24/25 13:00
Date Received: 04/25/25 16:01

Lab Sample ID: 820-18644-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	108996	04/30/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109033	04/30/25 20:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109236	04/30/25 20:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			109351	05/01/25 15:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	108994	04/29/25 15:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109154	05/01/25 15:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	109074	04/30/25 10:50	SI	EET MID
Soluble	Analysis	300.0		1			109083	04/30/25 17:00	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 820-18644-1
SDG: KH227027

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 820-18644-1
SDG: KH227027

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 820-18644-1
SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
820-18644-1	FS-14.1	Solid	04/24/25 13:00	04/25/25 16:01	5.0-5.5

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Loc: 820
18644



820-18644 Chain of Custody

CHAIN OF CU

ANALYSIS REQUESTED

TEMP OF COOLER WHEN RECEIVED (°C) 49/9.7
 Page 1 of 1

Lab Sample ID

Project Name: Mobley Water Facility

Project Number: KH227027

Identifying Marks of Sample(s): FS-14.1

Start Depth (FT): 50.55
 End Depth (FT): 55

No. Type of Containers: 1
4 oz Glass

Matrix: S

Date: 4/24/2025 Time: 13:00

Comp: X Grab: X

Analysis Requested: Chloride (EPA Method 300) X, BTEX (EPA Method 8021B) X, TPH 8015 X

TURNAROUND TIME: 4-25-25 1601

24-Hour Rush: 4-25-25 1601

72-Hour Rush: 4-25-25 1601

RRRP Laboratory Review Checklist: 4/25/25 1601

Bill To: TERRACON

e-mail results to: chuck.smith@terracon.com, zach.mueller@terracon.com, joseph.guesnier@terracon.com

Laboratory: Xenco
6701 Aberdeen
Lubbock, Texas 79424

Office Location: Lubbock

Project Manager: Chuck Smith
Sampler's Name: Zach Mueller

Project Name: Mobley Water Facility

Project Number: KH227027

Identifying Marks of Sample(s): FS-14.1

Start Depth (FT): 50.55
End Depth (FT): 55

No. Type of Containers: 1
4 oz Glass

Matrix: S

Date: 4/24/2025 Time: 13:00

Comp: X Grab: X

Analysis Requested: Chloride (EPA Method 300) X, BTEX (EPA Method 8021B) X, TPH 8015 X

TURNAROUND TIME: 4-25-25 1601

24-Hour Rush: 4-25-25 1601

72-Hour Rush: 4-25-25 1601

RRRP Laboratory Review Checklist: 4/25/25 1601

Bill To: TERRACON

e-mail results to: chuck.smith@terracon.com, zach.mueller@terracon.com, joseph.guesnier@terracon.com

Matrix: WW/Wastewater
Container: VOL - 40 ml vial

W: Water
A/G: Amber Glass 1L

L: Liquid
250 ml - Glass wide mouth

A: Air Bag
P/O: Plastic or other...WIGS

C: Charcoal Tube
SI: Sludge

Lubbock Office ■ 5847 50th Street ■ Lubbock, Texas 79424 ■ 806-300-0140

Responsive ■ Resourceful ■ Reliable



Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-18644-1

SDG Number: KH227027

Login Number: 18644

List Number: 1

Creator: Pena, Yazmeane

List Source: Eurofins Lubbock

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-18644-1

SDG Number: KH227027

Login Number: 18644

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 04/29/25 03:24 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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APPENDIX D – TERRACON STANDARD OF CARE, LIMITATIONS, AND RELIANCE

Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These services were performed in accordance with the scope of work agreed with you, Solaris Water Midstream, LLC (Client), as reflected in our Master Services Agreement.

Additional Scope Limitations

The development of this Amended Closure Report is based upon information provided by the Client and Terracon's remediation and construction services line. Such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those by information provided by the Client. The data, interpretations, findings, and recommendations are based solely upon reformation executed within the scope of these services.

Reliance

This report has been prepared for the exclusive use of Client, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Client and Terracon. Any unauthorized distribution or reuse is at Client sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal and Client and Terracon's Master Services Agreement. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to Client and all relying parties unless otherwise agreed in writing.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2234144689
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Solaris Water, LLC	OGRID 371643
Contact Name Rob Kirk	Contact Telephone O 575- 300-5155 C 469-978-5620
Contact email rob.kirk@ariswater.com	Incident # (assigned by OCD)
Contact mailing address 3305 Boyd Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.297112 Longitude -103.92169
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Mobley Water Recycling Facility	Site Type Salt Water Recycling and Disposal
Date Release Discovered 12/6/2022	API# (if applicable) 30-015-45072

Unit Letter	Section	Township	Range	County
C	19	23S	30E	Eddy

Surface Owner: State Federal Tribal Private (Name: Mobley family)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release A pump used to transfer and recirculate water ran out of fuel resulting in an overflow of a treatment tank with Produced Water captured in secondary containment. Approximately 70 BBLs were released with 60 BBLs removed by Vac Truck from the secondary container. Approximately 10 BBLs escaped secondary containment impacted the treatment pad. An area of soil approximately 30 feet long by 10 feet wide (300 sq ft) was impacted.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2234144689
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume of Produced Water released in secondary containment.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? NMOCD Web portal NOR completed by Rob Kirk, and emails to OCD office in Artesia.	

Initial Response

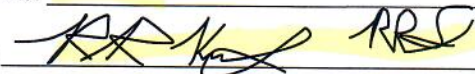
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
--

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Rob Kirk Title: VP & GM, HSE & Compliance
 Signature:  Date: 12/7/2022
 email: rob.kirk@ariswater.com Telephone: O 575- 300-5155 C 469-978-5620

OCD Only
 Received by: _____ Date: _____

Incident ID	nAPP2234144689
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	37 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

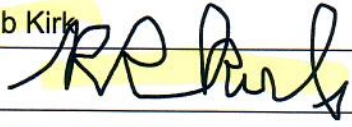
- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2234144689
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Rob Kirk Title: VP, Environmental Compliance
 Signature:  Date: 10/13/2023
 email: rob.kirk@ariswater.com Telephone: O 432-203-9020 C 469-978-5620

OCD Only

Received by: Shelly Wells Date: 10/13/2023

Incident ID	nAPP2234144689
District RP	
Facility ID	
Application ID	

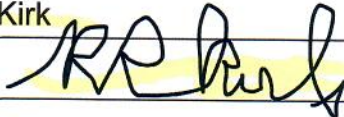
Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Rob Kirk Title: VP, Environmental Compliance
 Signature:  Date: 10/13/2023
 email: rob.kirk@ariswater.com Telephone: O 432-203-9020 C 469-978-5620

OCD Only

Received by: Shelly Wells Date: 10/13/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 465301

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 465301
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2234144689
Incident Name	NAPP2234144689 MOBLEY SWD #001 @ 30-015-45072
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-45072] MOBLEY SWD #001

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	MOBLEY SWD #001
Date Release Discovered	12/06/2022
Surface Owner	Private

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error Frac Tank Produced Water Released: 80 BBL Recovered: 70 BBL Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	The water was captured in secondary containment, 10 BBLs escaped the secondary containment and remained on the work site pad.

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QUESTIONS, Page 2

Action 465301

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 465301
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Lauren Bean Title: Senior Engineering Tech Email: lauren.bean@ariswater.com Date: 05/20/2025
--	---

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QUESTIONS, Page 3

Action 465301

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 465301
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1/2 and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	30500
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	209
GRO+DRO (EPA SW-846 Method 8015M)	124
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	02/17/2023
On what date will (or did) the final sampling or liner inspection occur	04/24/2025
On what date will (or was) the remediation complete(d)	07/30/2023
What is the estimated surface area (in square feet) that will be reclaimed	9450
What is the estimated volume (in cubic yards) that will be reclaimed	1820
What is the estimated surface area (in square feet) that will be remediated	9450
What is the estimated volume (in cubic yards) that will be remediated	680

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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Action 465301

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 465301
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Lauren Bean Title: Senior Engineering Tech Email: lauren.bean@ariswater.com Date: 05/20/2025
--	---

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 465301

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 465301
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 465301

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 465301
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	453909
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/24/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	50

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	9450
What was the total volume (cubic yards) remediated	680
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	9450
What was the total volume (in cubic yards) reclaimed	1820
Summarize any additional remediation activities not included by answers (above)	N/A

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Lauren Bean Title: Senior Engineering Tech Email: lauren.bean@ariswater.com Date: 05/20/2025
--	---

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QUESTIONS, Page 7

Action 465301

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 465301
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 465301

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 465301
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	6/10/2025